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MEASUREMENT OF BIOGENIC AND ANTHROPOGENIC VOLATILE ORGANIC COMPOUNDS DURING THE CANADIAN ATMOSPHERIC CHEMISTRY STUDY, JULY 17 TO AUGUST 31,1988

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ABSTRACT

A technique for measuring ambient concentrations of biogenic and anthropogenic volatile organic compounds was developed and used to analyze air samples obtained during the Canadian Atmospheric Chemistry Study at Dorset and Egbert, Ontario, July and August, 1988. This report describes the method and lists the observed concentrations.

1.0 INTRODUCTION

This report describes a technique that has been developed to measure biogenic (natural) and anthropogenic (man-made) volatile organic compounds (VOCs) present in ambient air. Elevated ozone episodes in central Ontario are a recurring phenomenon during Ontario summers. To advance our understanding of the role of NO_x vs VOCs and biogenic vs anthropogenic emissions in controlling ozone and other oxidant concentrations in Ontario, an intensive field study (Canadian Atmospheric Chemistry Study) was undertaken during the summer of 1988.

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The study included making an intensive set of measurements of VOCs at two sites , Dorset and Egbert, in rural south-central Ontario over a period of forty days.

The work described in this report was carried out to support the development of an information base on biogenic and anthropogenic VOCs. Under the auspices of the Canadian Institute for Research in Atmospheric Chemistry (CIRAC), this data set will be used to examine the observed mixing ratios of different classes of VOCs to determine the relative contribution of natural and anthropogenic sources towards the local oxidant abundance, and to test the predictive capability of the Canadian and US Eulerian long-range transport models (ADOM and RADM).

2.0 EXPERIMENTAL

2.1 Analytical System

A schematic diagram of the analytical system which was used in this work is shown in Figures 1 and 2, it was based on a design by J. Rudolph/4/. The system was designed to accept air samples collected in 3-L "SUMMA" pressurized canisters. A sample volume of between 1 and 2 L is necessary to achieve the desired lower limits of detection (0.05 -0.02 μg/m^3) for the various hydrocarbons and halocarbons in the atmosphere. Therefore sample preconcentration is necessary in order to reduce the sample size sufficiently to allow injection and separation in a gas chromatographic system.

This is achieved by preconcentrating the sample on a small nickel pre-column (15 cm length, 2 mm i.d.) packed with 100 mesh glass beads. The column was coiled around a 500-W temperature controlled heating rod and was assembled inside an insulated container which was cooled with liquid nitrogen to -150°C (Figure 3). At this temperature all hydrocarbons (except methane) and halocarbons are retained, but not oxygen and nitrogen. The advantage of this type of trap is that glass beads can be easily cleaned and cause neither measurable memory effects between samples or detectable blank values. Also desorption is fast and complete at relatively low temperatures thus limiting the risk of thermal decomposition of certain trace components. Trap loading and injection flows were controlled by Valco 10 and 4 port valves. The tubing in contact with the sample was made from nickel and heated to 80°C to prevent sample condensation. All temperatures were measured using thermocouples and electronically programmed or controlled using a Thermo Electric Tempstar II programable temperature controller. The sample volume used for analysis was calculated by measuring the pressure differential of the evacuated reference volume; this was done using an Omega PX-810 high resolution pressure/vacuum trans-ducer, and Omega DP-350 indicator.

Hydrocarbon species were desorbed from the trap by heating to 100°C, and then swept from the trap with helium carrier gas. Separation of the hydrocarbons was achieved on a high resolution glass capillary column (30 m, DB-1, 0.32 mm i.d., 1.0 μm film thickness, J&W Scientific). The column was operated at an initial temperature of -60°C for two minutes and then temperature programmed to +200°C at 6°C/min. The output of the column was connected to an FID detector. The gas chromatograph used in this work was a Hewlett Packard 5890A, with peaks being integrated on a Hewlett Packard 3396A integrator and the data collected on

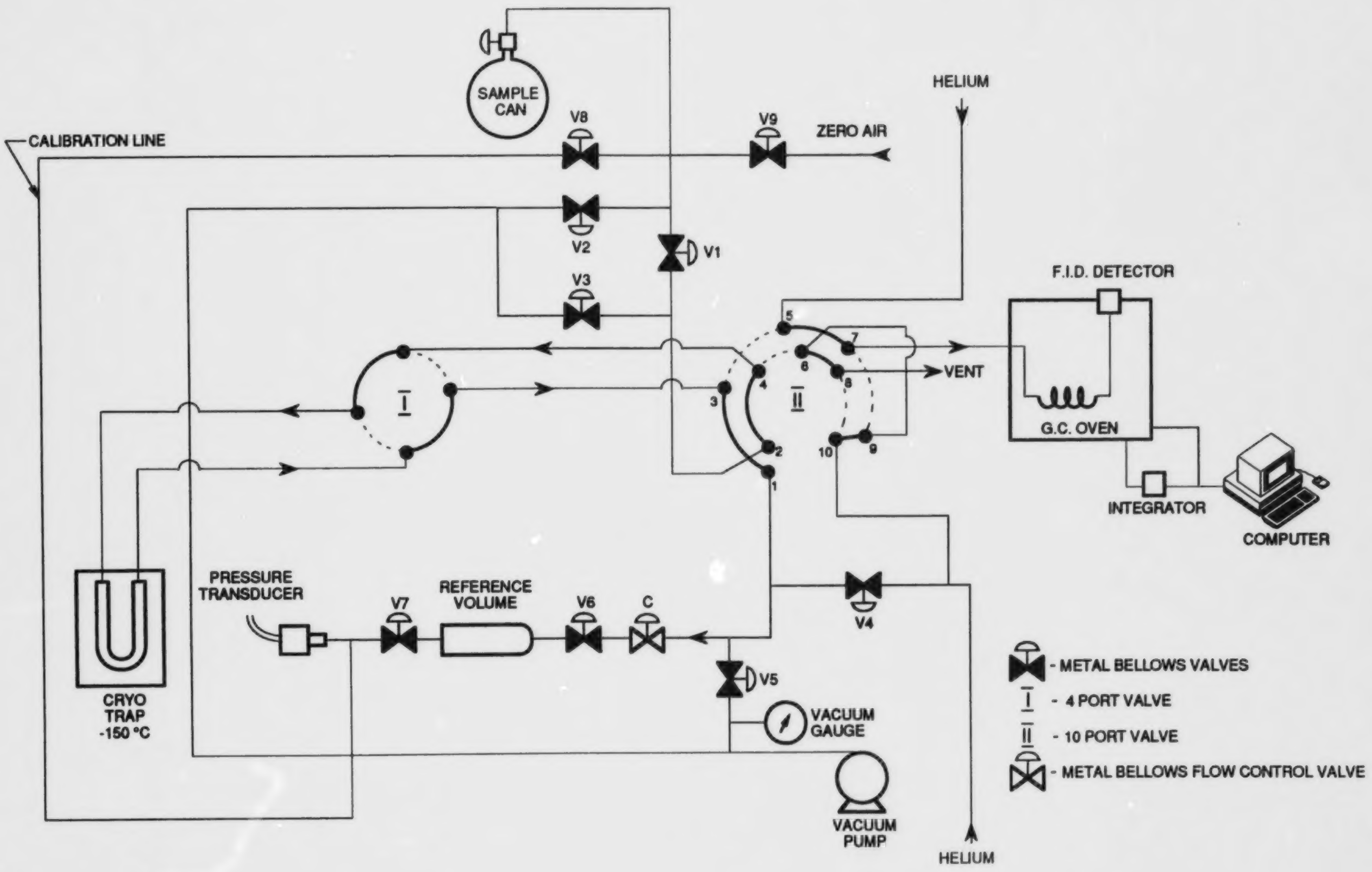

FIGURE 1

SAMPLE PRECONCENTRATION

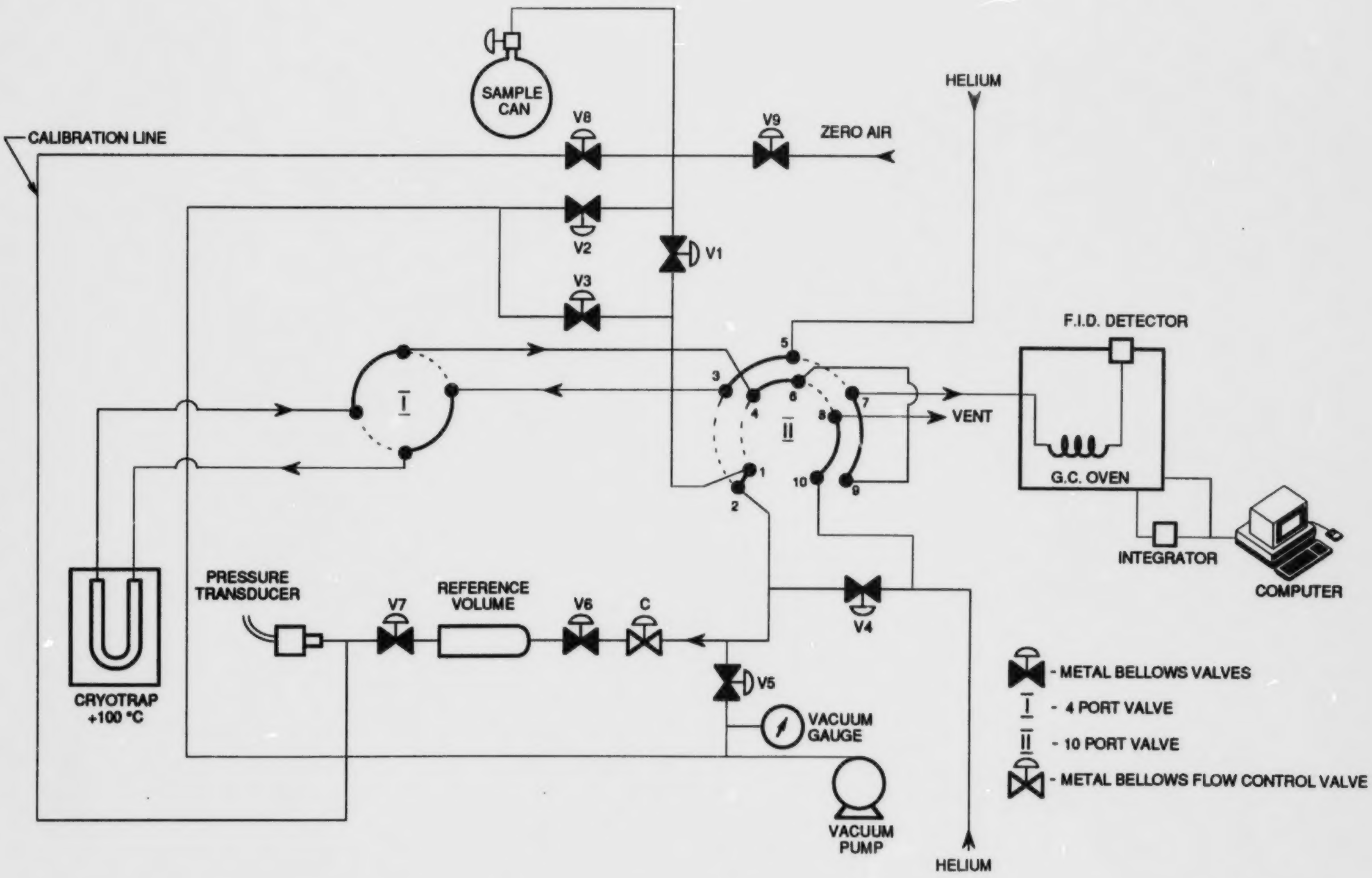

FIGURE 2

SAMPLE INJECTION AND SEPARATION

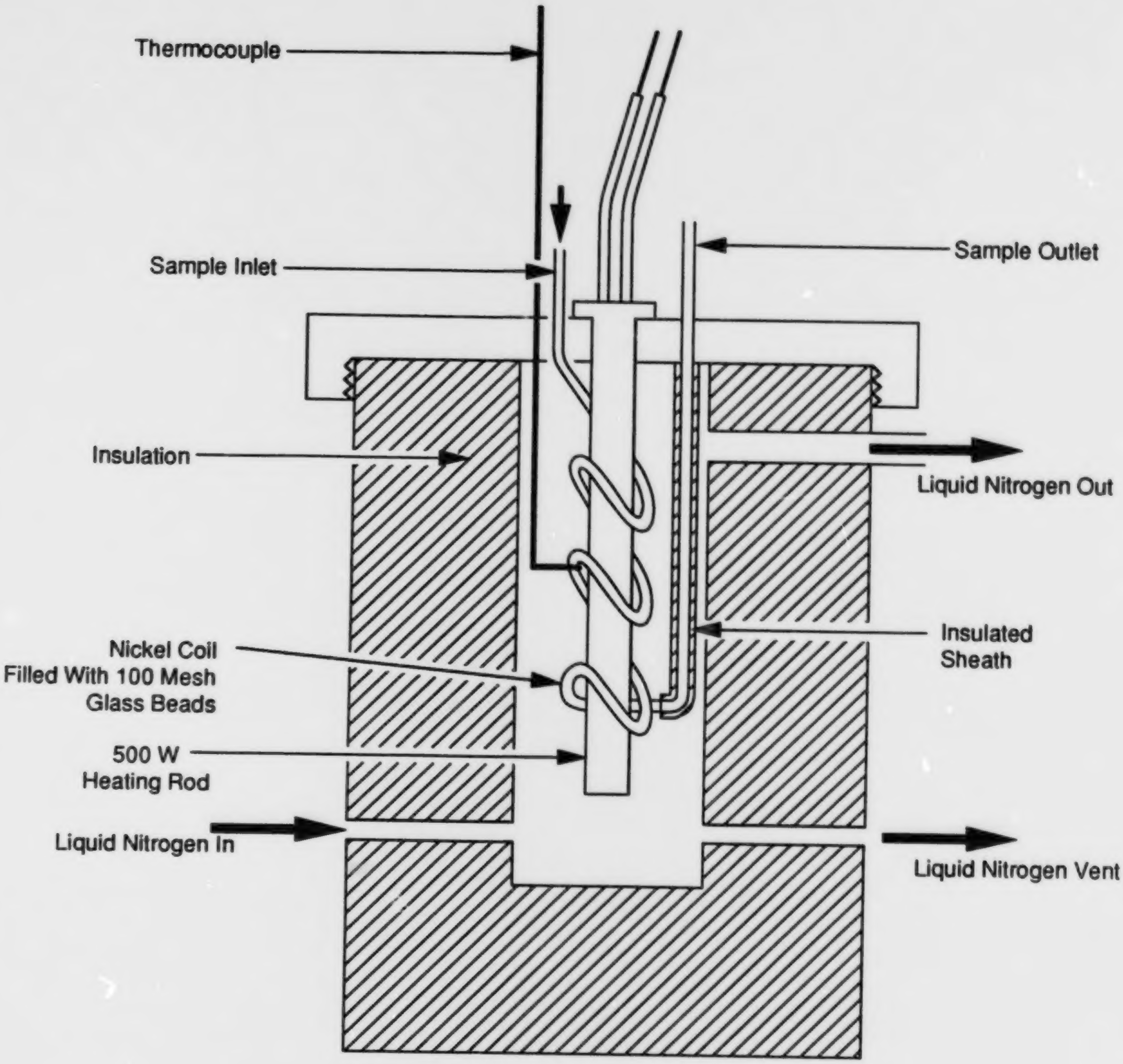

FIGURE 3

PRECONCENTRATION TRAP

a Compaq 286 deskpro computer using HP File Server software. Final data handling was done using Lotus 123.

2.2 Experimental Procedure

Detailed operation of the system is best described from Figures 1 and 2. The complete system which incorporates the column switching and backflush valves, consists of two multi-port valves (one 4-port and one 10-port valve) , nine shut-off valves (Nupro metal bellows) and a flow control valve (Nupro metal bellows).

Prior to sample preconcentration (Figure 1) all valves were closed. The preconcentration trap was cleaned by heating to 200°C, and, by opening valves 3 and 4, was backflushed with helium for fifteen minutes. Valves 3 and 4 were then closed, valve 5 opened, and the preconcentration loop evacuated to 10 mTorr. The loop was then cooled down to -150°C with liquid nitrogen and valve 5 was now closed. The sample canister was attached and the dead volume between valve 1 and the sample container evacuated to about 10 mTorr by opening valve 2. It was then flushed twice with a small volume of the sample in order to prevent contamination from the previous sample or laboratory air. With valve 2 now closed, valves 1, 6 and 7 were opened and the sample was pumped via the ten- (II) and four-port valves (I) through the preconcentration loop into the previously-evacuated reference volume. During this step the preconcentration loop was kept at -150°C, and the sample flow rate was adjusted to approximately 50 mL/min with the metal bellows control valve 3. Under these conditions, hydrocarbons from C2 and above are quantitively retained in the preconcentration column.

When the desired sample volume was obtained (derived from the final pressure in the reference volume), and with the preconcentration column still at -150°C, valves 1,6,7 and the valve on the sample canister were closed. Valve 5 was then opened and the preconcentration loop evacuated to 10 mTorr in order to minimize the volume of the preconcentrated sample.

The four-port valve (I) and the ten-port valve (II) are then rotated and the preconcentration loop heated to 100°C in less than 20 s. Immediately after the final desorption temperature was reached the four-port valve (I) was switched again and the sample flushed from the loop by the carrier gas (Figure 2). After approximately 4 mL of carrier gas have passed through the preconcentration loop (about 2 min) the four-port valve (I) was rotated back, isolating the loop. This is about fifteen times the dead volume of the preconcentration loop and is sufficient to transfer all components onto the separation column in the gas chromatograph. Switching the four-port valve (I) after 2 min also limits the amount of water transferred from the preconcentration loop onto the separation column. This is essential in order to limit the tailing of water but also prevents the overloading or plugging of the separation column in the case of samples taken in high humidity air.

2.3 Separation

The operation of the separation system is shown in Figure 2. Temperature programming of the gas chromatograph oven began when the sample was flushed from the preconcentration loop onto the separation column. Attached to the head of the separation column was a 5-cm uncoated glass capillary pre-column. This serves to "freeze" the hydrocarbons as a sharp band at the inlet of the separation column. The oven was held at -60°C for two minutes during this time after which it was temperature programmed to 200°C at 6°C/min. Substances eluting from the capillary separation column were detected by a flame ionisation detector.

2.4 Calibration

The apparatus was calibrated by injection of known volumes of standard gas mixtures onto the cold trap. These mixtures were obtained from Scott Specialty Gases. Pure compounds (>99.9%) were also obtained from Ultra Scientific, Rhode Island, U.S.A. and multi-component mixtures prepared using a static dilution bottle technique (USEPA method B011586). Interlaboratory calibrations were also performed with the Atmospheric Environment Service, Ontario Ministry of the Environment, York University, Concord Scientific and the Environmental Protection Service in Ottawa, using N.B.S. gas mixtures. The gas-chromatograph performance was checked daily using a primary standard (±1%) of benzene (10 ppmv).

2.5 Sampling

Air samples were collected in "SUMMA" stainless steel canisters. The interior surfaces of these canisters had been electropolished using the Molectrics "SUMMA" process, and have been demonstrated to have an excellent stability for hydrocarbons and halocarbons (R.K. Jayanty)/3/.

The canisters were cleaned between samples at York University by flushing with nitrogen, heating to 80°C and then evacuating to 10^{-6} mTorr.

An ultra-clean air pump (Model FC-1121, 12V DC Motor, Biospherics Research Corporation) was used to fill the canisters with ambient air. This pump has a Teflon diaphragm and stainless steel plate pump head, and a flow capacity of 6 L/min. Each canister was pres-sured to ~30 psig providing about 6 L of sample at ambient pressure.

3.0 ACCURACY AND PRECISION OF THE METHOD

The analytical procedure consists of three main operations:

(1) Measurement of the volume of air sample to be concentrated;

(2) Trapping and subsequent release of the hydrocarbons to be determined; and

(3) Gas-chromatographic analysis of the individual hydrocarbons.

3.1 Measurement of Air Sample Volume

The air sample volume was determined by measuring the pressure differential in a known reference container. The container was a 3-L stainless steel flask; its actual volume was measured by weighing the flask before and after filling with deionised water. The pressure/

vacuum in the container was measured using an Omega PX-810 transducer. This system was capable of measuring a 1-L sample volume with an accuracy of ±0.3%.

3.2 Trapping and Release of Hydrocarbons

The recovery of the preconcentration procedure was measured by replicate injections of 250 µL of a standard gas mixture containing 15 ppmv each of C3 to C7 straight chain hydrocarbons. Injections were made into the preconcentration trap at -150°C and also directly into the gas-chromatograph, in which case recovery was assumed to be 100%. Similar tests were carried out using 2 to 5 ppmv multicomponent mixtures, up to C11.

The mean recovery from the preconcentration loop was found to be in excess of 99% for compounds up to approximately C9 and 97.6% up to C11.

3.3 Precision of the Analytical Procedure

The precision of the method was determined by replicate analysis of samples of air taken outside the Ontario Hydro Research Labs. Due to the high concentration of hydrocarbons and halocarbons in these samples, it was possible to carry out six (500 mL) replicate analysis on each of these samples. The overall precision of the method when applied to these samples was found to be 11.7%.

3.4 Limits of Detection and Concentration Range

The limits of detection depend on the individual hydrocarbon species and on the volume concentrated. For a 1-L sample the practical detection limits, corresponding to a threshold detection of twice the noise, was approximately 0.05 $\mu g/m^3$. The method was designed for the analysis of relatively clean air samples, and the upper concentration limit is determined by the necessity to avoid overloading the capillary column with subsequent loss of resolution. Concentration of samples up to 3 L was found to allow the minor components to be detected and measured without overloading the column with the major components.

3.5 Hydrocarbon and Halocarbon Species Identification

The analysis of air samples for hydrocarbons and halocarbons by preconcentration followed by gas chromatography with selective detection (FID/ECD) is adequate as long as the compounds of interest are known, otherwise chromatography/mass spectrometry is recommended for initial screening. For this study the work of two authors (R.D. Cox et al/1/ and T.E. Graedel et al /2/) and the E.P.A. V.O.C. Data Base were used as a basis for predetermining the major species likely to be encountered in an atmospheric sample.

Table 1 summarizes the performance characteristics of the method.

TABLE 1

SUMMARY OF PERFORMANCE CHARACTERISTICS OF THE ANALYTICAL METHOD

Precision	11.7%
Detection Limit (2σ, 1-L Sample)	0.05 μg/m^3
Preconcentration and Desorption Efficiency	97.6-99%
Accuracy	10%

4.0 SAMPLING

4.1 Location

Samples were collected during this study at two ground sites in Ontario - Dorset and Egbert. The two sites are about 120 km apart and located along the axis of the prevailing air mass trajectory associated with high ozone concentrations. For a period of forty-days air samples were collected three times a day (at approximately 8 am, 4 pm and 10 pm). During the same period, samples were also collected from two research aircraft (a DC3 and a Twin Otter) whenever they were close to the ground sites.

4.2 Analysis

Analysis of the air samples was performed by Concord Scientific (for C2-C6), York University, Ontario Hydro, Ontario Ministry of the Environment and Environment Canada.

5.0 RESULTS AND DISCUSSION

The results of samples analyzed by Ontario Hydro are listed in Appendices 1 to 4. Appendix 1 lists the results of samples taken at Dorset, Appendix 2 those from Egbert. Appendix 3 lists the samples taken from the DC3 aircraft and Appendix 4 those from the Twin Otter aircraft. Preceding Appendix 1 is a description of the sampling notation, ie, site, sample date, time, etc.

A detailed analysis of the results of this study is beyond the scope of this report. These data will be part of a larger data base that will receive further study under the auspices of the Canadian Institute for Research in Atmospheric Chemistry (CIRAC), of which Ontario Hydro is a member.

6.0 CONCLUSIONS

1. A technique has been developed for the cryogenic concentration and gas chromatographic analysis of condensible species in air.

2. The technique has been shown to be suitable for the concentration of hydrocarbons in the carbon range C3 to C12 in samples of ambient air.

7.0 SUGGESTED IMPROVEMENTS

To facilitate ease of operation, the preconcentration and injection steps should be automated, and more powerful computers and software are required to analyze the vast amount of data that is generated during each analysis.

To improve the reliability of identification of individual hydrocarbons and halocarbons, other than through the use of GC/MS, a dual column technique is recommended. This involves splitting the sample in the gas-chromatograph onto two columns of slightly different phases, eg, DB1 and DB5, with FID detectors attached to each column. This reportedly can increase the reliability of identification to about 95%.

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APPENDIX 1

SAMPLE IDENTIFICATION

Samples are listed in each appendix in order of sample day (Julian day). The sample identifier provides information on sample location, sample container, sample time, sample number and initial sample pressure, if known.

eg, DO - A074 - 199 - 16:30 - 2 (32 psi)

DO: Sample Location

DO: DORSET
EG: EGBERT
DC: DC3 AIRCRAFT
TO: TWIN OTTER AIRCRAFT

A074: Sample Container Number

199: Julian day

16:30 Sample Time

2: Sample Number, eg, Second sample that day.

(32psi): Initial Sample Pressure

DO-A074-199-16:30-2 (32PSI) 1500ML

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.859
1-PENTENE	0.032
2-METHYL-1-BUTENE	0.033
PENTANE	0.447
2-METHYL-1,3-BUTADIENE	3.625
TRANS-2-PENTENE	0.054
DICHLOROMETHANE	0.260
2,2-DIMETHYLBUTANE	0.149
3-METHYL-1-PENTENE	0.041
CIS-4-METHYL-2-PENTENE	0.249
3-METHYLPENTANE	0.147
HEXANE	0.139
CIS-3-METHYL-2-PENTENE	0.062
2,4-DIMETHYLPENTANE	0.068
BENZENE	0.055
TOLUENE	0.027
CHLOROBENZENE	0.035

SAMPLE DO-A075-199-2315-3(32PSI) REPEAT

COMPOUND NAME	AMOUNT ug/m^3
TRANS-2-BUTENE	
2-METHYLBUTANE	0.844
PENTANE	0.370
2-METHYL-1,3-BUTADIENE	1.894
DICHLOROMETHANE	0.234
2,2-DIMETHYLBUTANE	0.110
4-METHYL-1-PENTENE	0.098
CYCLOPENTANE	0.038
2,3-DIMETHYLBUTANE	0.050
2-METHYLPENTANE	0.247
3-METHYLPENTANE	0.199
HEXANE	0.178
TRICHLOROMETHANE	0.231
METHYLCYCLOPENTANE	0.076
2,4-DIMETHYLPENTANE	0.191
BENZENE	0.438
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.137
3-METHYLHEXANE	0.103
TRICHLOROETHENE	0.129
2,2,4-TRIMETHYLPENTANE	0.082
HEPTANE	0.082
2,2-DIMETHYLHEXANE	0.023
2,3,4-TRIMETHYLPENTANE	0.034
TOLUENE	0.900
2-METHYLHEPTANE	0.034
3-METHYLHEPTANE	0.039
OCTANE	0.049
CHLOROBENZENE	0.032
ETHYLBENZENE	0.024
m- AND p-XYLENE	0.073
a-PINENE	0.179
3-ETHYLTOLUENE	0.020
1,3,5-TRIMETHYLBENZENE	0.101
b-PINENE	0.034
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.066
DECANE	0.027

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DO-A077-200-15:45-2

                               COMPOUND NAME   AMOUNT
                                               ug/m^3

                         2,2-DIMETHYLPROPANE
                              2-METHYLBUTANE    0.438
                                     PENTANE    0.214
                      2-METHYL-1,3-BUTADIENE    5.007
                             DICHLOROMETHANE    0.237
                         2,2-DIMETHYLBUTANE     0.111
                         2,3-DIMETHYLBUTANE     0.024
                      CIS-4-METHYL-2-PENTENE    0.091
                            3-METHYLPENTANE     0.070
                                      HEXANE    0.084
                      CIS-3-METHYL-2-PENTENE    0.037
                        2,4-DIMETHYLPENTANE     0.158
                                     BENZENE    0.129
      2,3-DIMETHYLPENTANE/2-METHYLHEXANE        0.033
                              3-METHYLHEXANE    0.022
                      2,2,4-TRIMETHYLPENTANE    0.026
                   2,4,4-TRIMETHYL-1-PENTENE    0.029
                               CHLOROBENZENE    0.035
                            p- AND m-XYLENE     0.033
                      1,3,5-TRIMETHYLBENZENE    0.024
                            ISOBUTYLBENZENE     0.022
```

SAMPLE DO-A087-202-16:15-2-(32psi)

COMPOUND NAME	AMOUNT ug/m^3
CHLOROETHANE	0.341
1-PENTENE	0.130
2-METHYL-1-BUTENE	0.198
PENTANE	1.114
2-METHYL-1,3-BUTADIENE	3.050
TRANS-2-PENTENE	0.230
CIS-2-PENTENE	0.103
2-METHYL-2-BUTENE	0.343
2,2-DIMETHYLBUTANE	0.152
4-METHYL-1-PENTENE	0.442
CYCLOPENTANE	0.086
2,3-DIMETHYLBUTANE	0.117
2-METHYLPENTANE	0.535
3-METHYLPENTANE	0.536
HEXANE	0.425
METHYLCYCLOPENTANE	0.148
2,4-DIMETHYLPENTANE	0.208
BENZENE	1.164
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.173
3-METHYLHEXANE	0.122
2,2,4-TRIMETHYLPENTANE	0.097
TOLUENE	0.825
1,3,5-TRIMETHYLBENZENE	0.074
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.523

SAMPLE DO-A091-204-09:20-1

COMPOUND NAME	AMOUNT ug/m^3
CIS-2-BUTENE	0.132
2-METHYLBUTANE	2.508
1-PENTENE	0.112
2-METHYL-1-BUTENE	0.157
PENTANE	1.082
2-METHYL-1,3-BUTADIENE	5.879
TRANS-2-PENTENE	0.169
CIS-2-PENTENE	0.081
DICHLOROMETHANE	0.865
2,2-DIMETHYLBUTANE	0.169
4-METHYL-1-PENTENE	0.136
CYCLOPENTANE	0.098
2,3-DIMETHYLBUTANE	0.135
2-METHYLPENTANE	0.620
3-METHYLPENTANE	0.417
2-METHYL-1-PENTENE	0.096
HEXANE	0.467
TRICHLOROMETHANE	0.405
METHYLCYCLOPENTANE	0.189
2,4-DIMETHYLPENTANE	0.183
BENZENE	0.623
CYCLOHEXANE	0.073
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.242
3-METHYLHEXANE	0.175
2,2,4-TRIMETHYLPENTANE	0.105
HEPTANE	0.122
2,2-DIMETHYLHEXANE	0.074
TOLUENE	0.364
1,4-DICHLOROBENZENE	0.022

```
          SAMPLE DO-A094-205-09:30-2

                               COMPUND NAME   AMOUNT
                                              ug/m^3

                             1,3-BUTADIENE
                            2-METHYLBUTANE     0.373
                                   PENTANE     0.203
                    2-METHYL-1,3-BUTADIENE     2.595
                        2-METHYL-2-BUTENE      0.056
                       2,2-DIMETHYLBUTANE      0.085
                          2-METHYLPENTANE      0.097
                          3-METHYLPENTANE      0.061
                                   HEXANE      0.074
                     2,4-DIMETHYLPENTANE       0.100
                                  BENZENE      0.096
```

SAMPLE DO-A095-205-23:20-4

COMPUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.595
PENTANE	0.322
2-METHYL-1,3-BUTADIENE	1.444
DICHLOROMETHANE	0.235
2,2-DIMETHYLBUTANE	0.107
4-METHYL-1-PENTENE	0.072
2-METHYLPENTANE	0.193
3-METHYLPENTANE	0.176
HEXANE	0.166
METHYLCYCLOPENTANE	0.060
2,4-DIMETHYLPENTANE	0.171
BENZENE	0.313
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.098
3-METHYLHEXANE	0.062
2,2,4-TRIMETHYLPENTANE	0.087
HEPTANE	0.055
TOLUENE	0.179

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                 SAMPLE -DO-A038-209-15:40-3

                                               COMPUND NAME    AMOUNT
                                                               ug/m^3

                                            2-METHYLBUTANE      0.439
                                                   PENTANE      0.144
                                  2-METHYL-1,3-BUTADIENE        4.989
                                           DICHLOROMETHANE      0.199
                                        2,2-DIMETHYLBUTANE      0.085
                                        4-METHYL-1-PENTENE      0.187
                                        2,3-DIMETHYLBUTANE      0.020
                                  CIS-4-METHYL-2-PENTENE        0.089
                                          2-METHYLPENTANE       0.195
                                TRANS-4-METHYL-1-PENTENE        0.273
                                                    HEXANE      0.077
                                          TRICHLOROMETHANE      0.175
                                        METHYLCYCLOPENTANE      0.030
                                      2,4-DIMETHYLPENTANE       0.177
                                    1,1,1-TRICHLOROETHANE       0.199
                                                   BENZENE      0.214
                                        TETRACHLOROMETHANE      0.401
                      2,3-DIMETHYLPENTANE/2-METHYLHEXANE        0.048
                                           3-METHYLHEXANE       0.202
                                   2,2,4-TRIMETHYLPENTANE       0.031
                                                   HEPTANE      0.029
                                                   TOLUENE      0.197
                               c-1,3-DIMETHYLCYCLOHEXANE        0.032
                                                    OCTANE      0.016
                                             CHLOROBENZENE      0.035
                                          p- AND m-XYLENE       0.029
                                   1,3,5-TRIMETHYLBENZENE       0.019
                 1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE       0.030
                  1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE        0.061
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          SAMPLE DO-A040-210-09:05-2

                                   COMPOUND NAME   AMOUNT
                                                   ug/m^3

                                       1-PENTENE    0.054
                                         PENTANE    1.190
                          2-METHYL-1,3-BUTADIENE    8.766
                                TRANS-2-PENTENE     0.096
                               2-METHYL-2-BUTENE    0.201
                              2,2-DIMETHYLBUTANE    0.238
                              4-METHYL-1-PENTENE    0.330
                                    CYCLOPENTANE    0.100
                              2,3-DIMETHYLBUTANE    0.143
                                 2-METHYLPENTANE    0.661
                                 3-METHYLPENTANE    0.539
                                          HEXANE    0.537
                                TRICHLOROMETHANE    0.331
                               2-METHYL-2-PENTENE   0.116
                              METHYLCYCLOPENTANE    0.219
                            2,4-DIMETHYLPENTANE     0.095
                                         BENZENE    0.863
                              TETRACHLOROMETHANE    0.312
                                     CYCLOHEXANE    0.095
             2,3-DIMETHYLPENTANE/2-METHYLHEXANE     0.350
                                   3-METHYLHEXANE   0.243
                                 TRICHLOROETHENE    0.173
                          2,2,4-TRIMETHYLPENTANE    0.339
                                         HEPTANE    0.185
                              2,2-DIMETHYLHEXANE    0.128
                       2,4,4-TRIMETHYL-2-PENTENE    0.030
                              2,5-DIMETHYLHEXANE    0.052
                          2,3,4-TRIMETHYLPENTANE    0.089
                                         TOLUENE    1.552
                             1-METHYLCYCLOHEXENE    0.046
                                  2-METHYLHEPTANE   0.085
                                  3-METHYLHEPTANE   0.112
                          2,2,5-TRIMETHYLHEXANE     0.025
                                         1-OCTENE   0.032
                               TETRACHLOROETHENE    0.252
                                           OCTANE   0.081
                                     ETHYLBENZENE   0.085
                                p- AND m-XYLENE     0.100
                                        o-XYLENE    0.041
                                        a-PINENE    0.027
```

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SAMPLE DO-A059-211-09:00-2

                           COMPOUND NAME   AMOUNT
                                           ug/m^3

                           1,3-BUTADIENE
                               1-PENTENE    0.073
                       2-METHYL-1-BUTENE    0.049
                                 PENTANE    0.885
                  2-METHYL-1,3-BUTADIENE    6.537
                         DICHLOROMETHANE    0.448
                      2,2-DIMETHYLBUTANE    0.206
                      4-METHYL-1-PENTENE    0.086
                            CYCLOPENTANE    0.067
                      2,3-DIMETHYLBUTANE    0.102
                         2-METHYLPENTANE    0.404
                         3-METHYLPENTANE    0.330
                      2-METHYL-1-PENTENE    0.048
                                  HEXANE    0.279
                      METHYLCYCLOPENTANE    0.109
                                 BENZENE    0.757
                             CYCLOHEXANE    0.107
      2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.110
                          3-METHYLHEXANE    0.102
                         TRICHLOROETHENE    0.231
                  2,2,4-TRIMETHYLPENTANE    0.173
                                 HEPTANE    0.062
                      2,2-DIMETHYLHEXANE    0.035
                                 TOLUENE    0.170
               c-1,3-DIMETHYLCYCLOHEXANE    0.034
                                1-OCTENE    0.033
                           CHLOROBENZENE    0.049
                            ETHYLBENZENE    0.032
                         p- AND m-XYLENE    0.065
                                 STYRENE    0.044
                                o-XYLENE    0.024
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE    0.037
```

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 DUB0:[MIDDLETON]DO212X2.PRN;1                                       27-SEP-1989
09:25                                   Page 1

           SAMPLE D0-A082-212-08:25-2

                                    COMPOUND NAME   AMOUNT
                                                    ug/m^3

                                          PROPYNE
                                    1,3-BUTADIENE
                                        1-PENTENE    0.019
                                2-METHYL-1-BUTENE    0.026
                                          PENTANE    0.183
                            2-METHYL-1,3-BUTADIENE   4.048
                                  TRANS-2-PENTENE    0.021
                                2-METHYL-2-BUTENE    0.054
                               2,2-DIMETHYLBUTANE    0.096
                               2,3-DIMETHYLBUTANE    0.020
                                  2-METHYLPENTANE    0.093
                                  3-METHYLPENTANE    0.055
                                           HEXANE    0.054
                               METHYLCYCLOPENTANE    0.020
                                          BENZENE    0.018
```

DUB0:[MIDDLETON]DO212X3.PRN;1 27-SEP-1989
09:25 Page 1

SAMPLE D0-A084-212-17:00-3

COMPOUND NAME	AMOUNT ug/m^3
2-METHYL-1-BUTENE	0.025
PENTANE	0.152
2-METHYL-1,3-BUTADIENE	1.738
TRANS-2-PENTENE	0.034
2-METHYL-2-BUTENE	0.057
2,2-DIMETHYLBUTANE	0.067
4-METHYL-1-PENTENE	0.225
2,3-DIMETHYLBUTANE	0.018
2-METHYLPENTANE	0.486
3-METHYLPENTANE	0.143
HEXANE	0.072
TRICHLOROMETHANE	0.130
METHYLCYCLOPENTANE	0.031
2,4-DIMETHYLPENTANE	0.094
1,1,1-TRICHLOROETHANE	0.329
BENZENE	0.101
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.053
3-METHYLHEXANE	0.255
2,2,4-TRIMETHYLPENTANE	0.013
HEPTANE	0.018
2,4,4-TRIMETHYL-2-PENTENE	0.052
TOLUENE	0.265
3-METHYLHEPTANE	0.017
c-1,3-DIMETHYLCYCLOHEXANE	0.046
1-OCTENE	0.026
TETRACHLOROETHENE	0.138
OCTANE	0.029
ETHYLBENZENE	0.015
p- AND m-XYLENE	0.052
o-XYLENE	0.026
a-PINENE	0.037
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.032
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	1.512

SAMPLE DO-A073-213-09:15-2

COMPOUND NAME	AMOUNT ug/m^3
1,3-BUTADIENE	
2-METHYLBUTANE	0.709
1-PENTENE	0.037
2-BUTYNE	0.038
PENTANE	0.327
2-METHYL-1,3-BUTADIENE	2.467
2-METHYL-2-BUTENE	0.052
2,2-DIMETHYLBUTANE	0.103
4-METHYL-1-PENTENE	0.075
CYCLOPENTANE	0.039
2,3-DIMETHYLBUTANE	0.051
2-METHYLPENTANE	0.222
3-METHYLPENTANE	0.162
1-HEXENE	0.023
HEXANE	0.176
TRICHLOROMETHANE	0.153
METHYLCYCLOPENTANE	0.071
2,4-DIMETHYLPENTANE	0.100
BENZENE	0.216
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.112
3-METHYLHEXANE	0.081
2,2,4-TRIMETHYLPENTANE	0.082
HEPTANE	0.059
2,2-DIMETHYLHEXANE	0.020
2,3,4-TRIMETHYLPENTANE	0.027
TOLUENE	0.215
2-METHYLHEPTANE	0.021
3-METHYLHEPTANE	0.024

SAMPLE DOO-A070-214-09:20-1

COMPOUND NAME	AMOUNT ug/m^3
PROPYNE	
1,3-BUTADIENE	
BUTANE	
2,2-DIMETHYLPROPANE	
1-PENTENE	0.045
2-METHYL-1-BUTENE	0.036
PENTANE	0.878
2-METHYL-1,3-BUTADIENE	4.018
TRANS-2-PENTENE	0.029
CIS-2-PENTENE	0.014
2-METHYL-2-BUTENE	0.108
2,2-DIMETHYLBUTANE	0.161
4-METHYL-1-PENTENE	0.102
CYCLOPENTANE	0.066
2,3-DIMETHYLBUTANE	0.099
2-METHYLPENTANE	0.446
3-METHYLPENTANE	0.361
1-HEXENE	0.026
HEXANE	0.264
TRICHLOROMETHANE	0.107
METHYLCYCLOPENTANE	0.102
2,4-DIMETHYLPENTANE	0.134
1,1,1-TRICHLOROETHANE	0.105
BENZENE	0.297
CYCLOHEXANE	0.027
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.093
3-METHYLHEXANE	0.091
2,2,4-TRIMETHYLPENTANE	0.083
HEPTANE	0.041
2,2-DIMETHYLHEXANE	0.020
2,3,4-TRIMETHYLPENTANE	0.019
TOLUENE	0.277
2-METHYLHEPTANE	0.015
3-METHYLHEPTANE	0.018
a-PINENE	0.025

SAMPLE DO-A151-215-08:40-2

COMPOUND NAME	AMOUNT ug/m^3
3-METHYL-1-BUTENE	0.115
2-METHYLBUTANE	3.556
1-PENTENE	0.192
2-METHYL-1-BUTENE	0.334
PENTANE	1.738
2-METHYL-1,3-BUTADIENE	15.359
TRANS-2-PENTENE	0.216
CIS-2-PENTENE	0.119
DICHLOROMETHANE	1.140
2,2-DIMETHYLBUTANE	0.281
CYCLOPENTENE	0.091
4-METHYL-1-PENTENE	0.209
3-METHYL-1-PENTENE	0.079
CYCLOPENTANE	0.173
2,3-DIMETHYLBUTANE	0.171
2-METHYLPENTANE	0.900
3-METHYLPENTANE	0.704
2-METHYL-1-PENTENE	0.108
1-HEXENE	0.124
HEXANE	0.868
TRICHLOROMETHANE	0.498
TRANS-2-HEXENE	0.075
2-METHYL-2-PENTENE	0.181
CIS-2-HEXENE	0.063
CIS-3-METHYL-2-PENTENE	0.031
METHYLCYCLOPENTANE	0.268
2,4-DIMETHYLPENTANE	0.443
1,1,1-TRICHLOROETHANE	0.451
BENZENE	1.044
TETRACHLOROMETHANE	0.293
CYCLOHEXANE	0.159
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.518
3-METHYLHEXANE	0.328
TRICHLOROETHENE	0.145
2,2,4-TRIMETHYLPENTANE	0.449
HEPTANE	0.295
2,4,4-TRIMETHYL-1-PENTENE	0.035
METHYLCYCLOHEXANE	0.031
2,2-DIMETHYLHEXANE	0.119
2,4,4-TRIMETHYL-2-PENTENE	0.137
2,5-DIMETHYLHEXANE	0.058
2,3,4-TRIMETHYLPENTANE	0.109
TOLUENE	1.815
1-METHYLCYCLOHEXENE	0.057
2-METHYLHEPTANE	0.110
3-METHYLHEPTANE	0.130
c-1,3-DIMETHYLCYCLOHEXANE	0.027
2,2,5-TRIMETHYLHEXANE	0.045
1-OCTENE	0.114
TETRACHLOROETHENE	0.428
OCTANE	0.189
c-1,2-DIMETHYLCYCLOHEXANE	0.018
CHLOROBENZENE	0.054

ETHYLCYCLOHEXANE	0.060
ETHYLBENZENE	0.344
p- AND m- XYLENE	0.734
STYRENE	0.123
o-XYLENE	0.325
NONANE	0.116
a-PINENE	0.417
3-CHLOROTOLUENE	0.079
PROPYLBENZENE	0.103
3-ETHYLTOLUENE	0.141
4-ETHYLTOLUENE	0.063
1,3,5-TRIMETHYLBENZENE	0.110
b-PINENE	0.325
1,2,4-TRIMETHYLBENZENE	0.067
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.330
1,4-DICHLOROBENZENE	0.045
ISOBUTYLBENZENE	0.032
DECANE	0.147
1,2,3-TRIMETHYLBENZENE	0.090
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.189
LIMONENE	0.181
1,3-DIETHYLBENZENE	0.070
BUTYLBENZENE	0.061
UNDECANE	0.133

SAMPLE DO-A152-215-15:30-3

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLPROPANE	
1,3-BUTADIENE	
BUTANE	
1-PENTENE	0.042
PENTANE	0.294
2-METHYL-1,3-BUTADIENE	5.138
TRANS-2-PENTENE	0.053
2-METHYL-2-BUTENE	0.081
2,2-DIMETHYLBUTANE	0.154
CYCLOPENTANE	0.023
2,3-DIMETHYLBUTANE	0.034
2-METHYLPENTANE	0.161
3-METHYLPENTANE	0.096
1-HEXENE	0.038
HEXANE	0.119
TRICHLOROMETHANE	0.145
METHYLCYCLOPENTANE	0.040
2,4-DIMETHYLPENTANE	0.067
BENZENE	0.172
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.036
2,2,4-TRIMETHYLPENTANE	0.029

SAMPLE D0-A048-216-10:00-1

COMPOUND NAME	AMOUNT ug/m^3
TRANS-2-BUTENE	
2,2-DIMETHYLPROPANE	
1-PENTENE	0.069
2-METHYL-1-BUTENE	0.110
PENTANE	1.354
2-METHYL-1,3-BUTADIENE	8.654
TRANS-2-PENTENE	0.061
CIS-2-PENTENE	0.043
2-METHYL-2-BUTENE	0.146
2,2-DIMETHYLBUTANE	0.219
3-METHYL-1-PENTENE	0.022
CYCLOPENTANE	0.095
2,3-DIMETHYLBUTANE	0.150
2-METHYLPENTANE	0.667
3-METHYLPENTANE	0.409
1-HEXENE	0.036
HEXANE	0.486
TRICHLOROMETHANE	0.199
TRANS-2-HEXENE	0.010
METHYLCYCLOPENTANE	0.177
2,4-DIMETHYLPENTANE	0.241
BENZENE	0.473
CYCLOHEXANE	0.203
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.176
3-METHYLHEXANE	0.103
TRICHLOROETHENE	0.067
2,2,4-TRIMETHYLPENTANE	0.128
HEPTANE	0.048
2,2-DIMETHYLHEXANE	0.026
TOLUENE	0.084

```
                 SAMPLE DO-A076-217-15:00-3

                                      COMPOUND NAME   AMOUNT
                                                      ug/m^3

                                             BUTANE
                                          1-PENTENE    0.029
                                            PENTANE    0.401
                           2-METHYL-1,3-BUTADIENE    2.308
                              2,2-DIMETHYLBUTANE    0.158
                                       CYCLOPENTANE    0.030
                              2,3-DIMETHYLBUTANE    0.043
                                   2-METHYLPENTANE    0.192
                                   3-METHYLPENTANE    0.118
                               METHYLCYCLOPENTANE    0.046
                             2,4-DIMETHYLPENTANE    0.187
                                            BENZENE    0.152
            2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.032
                                    3-METHYLHEXANE    0.023
                          2,2,4-TRIMETHYLPENTANE    0.028
                                            TOLUENE    0.018
```

SAMPLE DO-A098-217-23:10-4

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.026
2-METHYL-1-BUTENE	0.043
PENTANE	0.560
2-METHYL-1,3-BUTADIENE	0.422
TRANS-2-PENTENE	0.032
CIS-2-PENTENE	0.017
2-METHYL-2-BUTENE	0.095
2,2-DIMETHYLBUTANE	0.131
CYCLOPENTANE	0.040
2,3-DIMETHYLBUTANE	0.055
2-METHYLPENTANE	0.234
3-METHYLPENTANE	0.130
HEXANE	0.110
METHYLCYCLOPENTANE	0.037

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    DUB0:[MIDDLETON]DO218X2.PRN;1                                   27-SEP-1989
09:26                               Page 1

              SAMPLE DO-A028--218-16:30-2

                                          COMPOUND NAME    AMOUNT
                                                           ug/m^3

                                     2-METHYL-1-BUTENE      0.058
                                               PENTANE      0.934
                                2-METHYL-1,3-BUTADIENE      2.290
                                       TRANS-2-PENTENE      0.027
                                     2-METHYL-2-BUTENE      0.134
                                    2,2-DIMETHYLBUTANE      0.149
                                          CYCLOPENTANE      0.034
                                    2,3-DIMETHYLBUTANE      0.050
                                       2-METHYLPENTANE      0.244
                                       3-METHYLPENTANE      0.229
                                                HEXANE      0.211
                                      TRICHLOROMETHANE      0.157
                                    METHYLCYCLOPENTANE      0.082
                                   2,4-DIMETHYLPENTANE      0.251
                                               BENZENE      0.165
                                           CYCLOHEXANE      0.087
                  2,3-DIMETHYLPENTANE/2-METHYLHEXANE      0.242
                                        3-METHYLHEXANE      0.190
                                       TRICHLOROETHENE      0.322
                                2,2,4-TRIMETHYLPENTANE      0.044
                                               HEPTANE      0.407
                                    2,2-DIMETHYLHEXANE      0.381
                                    2,5-DIMETHYLHEXANE      0.047
                                               TOLUENE      2.303
                                   1-METHYLCYCLOHEXENE      0.136
                                       2-METHYLHEPTANE      0.531
                                       3-METHYLHEPTANE      0.451
                                 2,2,5-TRIMETHYLHEXANE      0.046
                                              1-OCTENE      0.114
                                                OCTANE      0.217
                                         CHLOROBENZENE      0.040
                                      p- AND m-XYLENE      0.159
                                               STYRENE      0.048
                                              o-XYLENE      0.077
                                                NONANE      0.029
                                              a-PINENE      0.059
                                        3-ETHYLTOLUENE      0.019
                                1,3,5-TRIMETHYLBENZENE      0.029
              1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE      0.065
                                                DECANE      0.034
```

SAMPLE DO-A010-219-00:10-1

COMPOUND NAME	AMOUNT ug/m^3
1,3-BUTADIENE	
PENTANE	0.162
2-METHYL-1,3-BUTADIENE	0.372
2-METHYL-2-BUTENE	0.048
2,2-DIMETHYLBUTANE	0.103
2,3-DIMETHYLBUTANE	0.024
2-METHYLPENTANE	0.106
3-METHYLPENTANE	0.069
HEXANE	0.088
METHYLCYCLOPENTANE	0.035
2,4-DIMETHYLPENTANE	0.168
BENZENE	0.157
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.057
3-METHYLHEXANE	0.041
2,2,4-TRIMETHYLPENTANE	0.023
HEPTANE	0.046
2,2-DIMETHYLHEXANE	0.019
TOLUENE	0.301
2-METHYLHEPTANE	0.103
3-METHYLHEPTANE	0.069
OCTANE	0.059
CHLOROBENZENE	0.018

SAMPLE DO-A008-219-10:45-2 REPEAT #2

COMPOUND NAME	AMOUNT ug/m^3
PROPYNE	0.128
2-METHYLPROPANE	0.116
PENTANE	0.065
2-METHYL-1,3-BUTADIENE	1.099
2,2-DIMETHYLBUTANE	0.078
2-METHYLPENTANE	0.052
3-METHYLPENTANE	0.036
HEXANE	0.045
2,4-DIMETHYLPENTANE	0.091
BENZENE	0.094
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.034
HEPTANE	0.024
TOLUENE	0.027
CHLOROBENZENE	0.164

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SAMPLE DO-A047-224-16:30

                          COMPOUND NAME   AMOUNT
                                          ug/m^3

                              1-PENTENE    0.029
                                PENTANE    0.246
                 2-METHYL-1,3-BUTADIENE    5.799
                      2-METHYL-2-BUTENE    0.038
                     2,2-DIMETHYLBUTANE    0.059
                     4-METHYL-1-PENTENE    0.144
                       2-METHYLPENTANE     0.050
               TRANS-4-METHYL-1-PENTENE    0.051
                       3-METHYLPENTANE     0.066
                                 HEXANE    0.050
                    2,4-DIMETHYLPENTANE    0.071
                  1,1,1-TRICHLOROETHANE    0.225
                                BENZENE    0.128
   2,3-DIMETHYLPENTANE/2-METHYLHEXANE      0.029
                         3-METHYLHEXANE    0.105
                 2,2,4-TRIMETHYLPENTANE    0.029
                                TOLUENE    0.130
              c-1,3-DIMETHYLCYCLOHEXANE    0.023
                          CHLOROBENZENE    0.411
```

SAMPLE DO-A041-225-10:00-1

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.114
2-METHYL-1,3-BUTADIENE	1.268
2,2-DIMETHYLBUTANE	0.080
4-METHYL-1-PENTENE	0.062
2-METHYLPENTANE	0.073
3-METHYLPENTANE	0.096
HEXANE	0.062
CIS-2-HEXENE	0.046
2,4-DIMETHYLPENTANE	0.076
1,1,1-TRICHLOROETHANE	0.373
BENZENE	0.158
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.043
3-METHYLHEXANE	0.042
2,2,4-TRIMETHYLPENTANE	0.038
TOLUENE	0.267
CHLOROBENZENE	0.882

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SAMPLE DO-A020-225-16:30-2

                           COMPOUND NAME    AMOUNT
                                            ug/m^3

                                 PENTANE     0.136
                  2-METHYL-1,3-BUTADIENE     1.687
                      2,2-DIMETHYLBUTANE     0.047
                      4-METHYL-1-PENTENE     0.081
                         2-METHYLPENTANE     0.049
                         3-METHYLPENTANE     0.116
                                  HEXANE     0.041
                     2,4-DIMETHYLPENTANE     0.079
                   1,1,1-TRICHLOROETHANE     0.148
                                 BENZENE     0.112
      2,3-DIMETHYLPENTANE/2-METHYLHEXANE     0.031
                          3-METHYLHEXANE     0.043
                  2,2,4-TRIMETHYLPENTANE     0.032
                                 HEPTANE     0.022
               2,4,4-TRIMETHYL-2-PENTENE     0.025
                                 TOLUENE     0.079
                           CHLOROBENZENE     0.633
                                  DECANE     0.132
```

DUB0:[MIDDLETON]DO226X2.PRN;1 27-SEP-1989
09:26 Page 1

SAMPLE D0-A074-226-16:10-2

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.027
PENTANE	0.356
2-METHYL-1,3-BUTADIENE	5.670
2-METHYL-2-BUTENE	0.052
2,2-DIMETHYLBUTANE	0.108
4-METHYL-1-PENTENE	0.114
2-METHYLPENTANE	0.077
3-METHYLPENTANE	0.088
HEXANE	0.038
2,4-DIMETHYLPENTANE	0.060
1,1,1-TRICHLOROETHANE	0.282
BENZENE	0.129
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.026
3-METHYLHEXANE	0.147
TOLUENE	0.221
CHLOROBENZENE	0.583

SAMPLE DO-A052-227-02:30-1

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.089
2-METHYL-1,3-BUTADIENE	0.188
2-METHYL-2-BUTENE	0.038
2,2-DIMETHYLBUTANE	0.084
4-METHYL-1-PENTENE	0.101
2-METHYLPENTANE	0.046
HEXANE	0.040
2,4-DIMETHYLPENTANE	0.167
1,1,1-TRICHLOROETHANE	0.318
BENZENE	0.176
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.055
3-METHYLHEXANE	0.322
2,4,4-TRIMETHYL-1-PENTENE	0.108
TOLUENE	0.157
c-1,3-DIMETHYLCYCLOHEXANE	0.205
1,1-DIMETHYLCYCLOHEXANE	0.033
TETRACHLOROETHENE	0.136
CHLOROBENZENE	0.734
ETHYLBENZENE	0.037
p- AND m-XYLENE	0.114
o-XYLENE	0.050
a-PINENE	0.041
DECANE	0.083

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SAMPLE DO-A042-227-09:50-2

                         COMPOUND NAME    AMOUNT
                                          ug/m^3

                               PENTANE     0.169
                  2-METHYL-1,3-BUTADIENE     1.404
                     2,2-DIMETHYLBUTANE     0.077
                        2-METHYLPENTANE     0.070
                        3-METHYLPENTANE     0.078
                                 HEXANE     0.071
                     METHYLCYCLOPENTANE     0.026
                    2,4-DIMETHYLPENTANE     0.157
                                BENZENE     0.224
  2,3-DIMETHYLPENTANE/2-METHYLHEXANE     0.043
                          3-METHYLHEXANE     0.035
                                TOLUENE     0.075
                          CHLOROBENZENE     0.636
                                 DECANE     0.127
```

```
SAMPLE DO-A100-228-02:15-1

                        COMPOUND NAME   AMOUNT
                                        ug/m^3

                       2-METHYLBUTANE    0.723
                            1-PENTENE    0.044
                   2-METHYL-1-BUTENE     0.058
                              PENTANE    0.517
              2-METHYL-1,3-BUTADIENE     3.842
                     TRANS-2-PENTENE     0.047
                       CIS-2-PENTENE     0.027
                   2-METHYL-2-BUTENE     0.099
                  2,2-DIMETHYLBUTANE     0.112
                        CYCLOPENTANE     0.054
                  2,3-DIMETHYLBUTANE     0.062
                      2-METHYLPENTANE    0.389
                      3-METHYLPENTANE    0.257
                             1-HEXENE    0.040
                               HEXANE    0.288
                      TRANS-2-HEXENE     0.018
                  METHYLCYCLOPENTANE     0.102
                 2,4-DIMETHYLPENTANE     0.209
                              BENZENE    0.218
                   TETRACHLOROMETHANE    0.342
 2,3-DIMETHYLPENTANE/2-METHYLHEXANE     0.145
                       3-METHYLHEXANE    0.107
              2,2,4-TRIMETHYLPENTANE     0.041
                              HEPTANE    0.074
                   2,2-DIMETHYLHEXANE    0.023
                        CHLOROBENZENE    0.517
```

```
          SAMPLE DO-A046-228-08:30-2

                                 COMPOUND NAME   AMOUNT
                                                 ug/m^3

                                     1-PENTENE    0.023
                            2-METHYL-1-BUTENE    0.064
                                       PENTANE    0.384
                       2-METHYL-1,3-BUTADIENE    1.567
                              TRANS-2-PENTENE    0.047
                                CIS-2-PENTENE    0.031
                            2-METHYL-2-BUTENE    0.106
                           2,2-DIMETHYLBUTANE    0.063
                           4-METHYL-1-PENTENE    0.251
                                 CYCLOPENTANE    0.053
                           2,3-DIMETHYLBUTANE    0.063
                              2-METHYLPENTANE    0.296
                     TRANS-4-METHYL-1-PENTENE    0.040
                              3-METHYLPENTANE    0.296
                                       HEXANE    0.250
                            TRICHLOROMETHANE    0.228
                              TRANS-2-HEXENE    0.030
                           2-METHYL-2-PENTENE    0.030
                                 CIS-2-HEXENE    0.037
                       CIS-3-METHYL-2-PENTENE    0.021
                          METHYLCYCLOPENTANE    0.104
                         2,4-DIMETHYLPENTANE    0.140
                       1,1,1-TRICHLOROETHANE    0.272
                                     BENZENE    0.412
          2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.237
                               3-METHYLHEXANE    0.196
                             TRICHLOROETHENE    0.098
                       2,2,4-TRIMETHYLPENTANE    0.152
                                     HEPTANE    0.149
                           2,2-DIMETHYLHEXANE    0.064
                     2,4,4-TRIMETHYL-2-PENTENE    0.038
                           2,5-DIMETHYLHEXANE    0.043
                       2,3,4-TRIMETHYLPENTANE    0.077
                                     TOLUENE    1.217
                         1-METHYLCYCLOHEXENE    0.038
                              2-METHYLHEPTANE    0.064
                              3-METHYLHEPTANE    0.082
                                      OCTANE    0.032
                                CHLOROBENZENE    0.688
```

```
SAMPLE DO-A027-230-22:30-4

                           COMPOUND NAME   AMOUNT
                                           ug/m^3

                               1-PENTENE    0.020
                      2-METHYL-1-BUTENE    0.027
                                 PENTANE    0.194
                 2-METHYL-1,3-BUTADIENE    0.822
                        TRANS-2-PENTENE    0.028
                      2-METHYL-2-BUTENE    0.068
                      2,2-DIMETHYLBUTANE    0.053
                      4-METHYL-1-PENTENE    0.119
                      2,3-DIMETHYLBUTANE    0.020
                         2-METHYLPENTANE    0.105
               TRANS-4-METHYL-1-PENTENE    0.033
                         3-METHYLPENTANE    0.140
                                  HEXANE    0.116
                       TRICHLOROMETHANE    0.146
                            CIS-2-HEXENE    0.030
                      METHYLCYCLOPENTANE    0.045
                     2,4-DIMETHYLPENTANE    0.175
                   1,1,1-TRICHLOROETHANE    0.316
                                 BENZENE    0.249
                      TETRACHLOROMETHANE    0.256
   2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.094
                          3-METHYLHEXANE    0.148
                  2,2,4-TRIMETHYLPENTANE    0.039
                                 HEPTANE    0.054
                      2,2-DIMETHYLHEXANE    0.025
                  2,3,4-TRIMETHYLPENTANE    0.021
                                 TOLUENE    0.318
                         2-METHYLHEPTANE    0.020
                         3-METHYLHEPTANE    0.023
                           CHLOROBENZENE    0.372
```

SAMPLE DO-A082-229-16:20-3

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.032
2-BUTYNE	0.030
2-METHYL-1-BUTENE	0.032
PENTANE	0.227
2-METHYL-1,3-BUTADIENE	3.609
2-METHYL-2-BUTENE	0.051
2,2-DIMETHYLBUTANE	0.105
CYCLOPENTANE	0.022
2,3-DIMETHYLBUTANE	0.026
2-METHYLPENTANE	0.131
3-METHYLPENTANE	0.100
1-HEXENE	0.036
HEXANE	0.108
METHYLCYCLOPENTANE	0.038
2,4-DIMETHYLPENTANE	0.159
BENZENE	0.119
TETRACHLOROMETHANE	0.248
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.034
3-METHYLHEXANE	0.036
HEPTANE	0.027
TOLUENE	0.082
CHLOROBENZENE	0.716

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   DUB0:[MIDDLETON]DO233X3.PRN;1                                     27-SEP-1989
09:28                                    Page 1

              SAMPLE D0-A066-233-14:50-3

                                         COMPOUND NAME   AMOUNT
                                                         ug/m^3

                                              2-BUTYNE    0.044
                                               PENTANE    0.116
                                2-METHYL-1,3-BUTADIENE    0.970
                                     2-METHYL-2-BUTENE    0.042
                                    2,2-DIMETHYLBUTANE    0.071
                                    4-METHYL-1-PENTENE    0.157
                                       2-METHYLPENTANE    0.267
                                       3-METHYLPENTANE    0.118
                                              1-HEXENE    0.063
                                                HEXANE    0.044
                                      TRICHLOROMETHANE    0.191
                                          CIS-2-HEXENE    0.034
                                    METHYLCYCLOPENTANE    0.018
                                   2,4-DIMETHYLPENTANE    0.186
                                 1,1,1-TRICHLOROETHANE    0.486
                                               BENZENE    0.429
                                    TETRACHLOROMETHANE    0.615
                    2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.114
                                        3-METHYLHEXANE    0.289
                                             3-HEPTENE    0.063
                                               HEPTANE    0.047
                             2,4,4-TRIMETHYL-1-PENTENE    0.047
                                     METHYLCYCLOHEXANE    0.027
                             2,4,4-TRIMETHYL-2-PENTENE    0.022
                                               TOLUENE    0.093
                             c-1,3-DIMETHYLCYCLOHEXANE    0.055
                               1,1-DIMETHYLCYCLOHEXANE    0.058
                                              1-OCTENE    0.034
                                     TETRACHLOROETHENE    0.155
                                         CHLOROBENZENE    0.494
                                       p- AND m-XYLENE    0.018
```

SAMPLE DO-A085-2231-09:50-1

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.025
2-BUTYNE	0.020
2-METHYL-1-BUTENE	0.023
PENTANE	0.407
2-METHYL-1,3-BUTADIENE	1.995
TRANS-2-PENTENE	0.076
2-METHYL-2-BUTENE	0.136
2,2-DIMETHYLBUTANE	0.101
4-METHYL-1-PENTENE	0.157
CYCLOPENTANE	0.040
2,3-DIMETHYLBUTANE	0.047
2-METHYLPENTANE	0.552
3-METHYLPENTANE	0.196
HEXANE	0.135
TRICHLOROMETHANE	0.187
CIS-2-HEXENE	0.023
METHYLCYCLOPENTANE	0.051
2,4-DIMETHYLPENTANE	0.148
1,1,1-TRICHLOROETHANE	0.303
BENZENE	0.162
TETRACHLOROMETHANE	0.222
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.136
3-METHYLHEXANE	0.355
TOLUENE	0.191
c-1,3-DIMETHYLCYCLOHEXANE	0.154
1,1-DIMETHYLCYCLOHEXANE	0.019
1-OCTENE	0.026
TETRACHLOROETHENE	0.118
OCTANE	0.022
CHLOROBENZENE	0.502
ETHYLBENZENE	0.024
p- AND m-XYLENE	0.050
a-PINENE	0.046

SAMPLE DO-A034-234-08:00-2

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.043
2-BUTYNE	0.030
2-METHYL-1-BUTENE	0.079
PENTANE	0.608
2-METHYL-1,3-BUTADIENE	1.931
TRANS-2-PENTENE	0.073
CIS-2-PENTENE	0.043
2-METHYL-2-BUTENE	0.153
2,2-DIMETHYLBUTANE	0.118
CYCLOPENTENE	0.018
4-METHYL-1-PENTENE	0.105
CYCLOPENTANE	0.065
2,3-DIMETHYLBUTANE	0.086
2-METHYLPENTANE	0.429
TRANS-4-METHYL-1-PENTENE	0.027
3-METHYLPENTANE	0.348
2-METHYL-1-PENTENE	0.001
HEXANE	0.300
TRICHLOROMETHANE	0.233
TRANS-2-HEXENE	0.029
2-METHYL-2-PENTENE	0.029
CIS-2-HEXENE	0.040
CIS-3-METHYL-2-PENTENE	0.020
METHYLCYCLOPENTANE	0.105
2,4-DIMETHYLPENTANE	0.196
1,1,1-TRICHLOROETHANE	0.315
BENZENE	0.319
TETRACHLOROMETHANE	0.217
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.127
3-METHYLHEXANE	0.199
2,2,4-TRIMETHYLPENTANE	0.077
HEPTANE	0.059
METHYLCYCLOHEXANE	0.018
2,2-DIMETHYLHEXANE	0.028
2,4,4-TRIMETHYL-2-PENTENE	0.024
2,5-DIMETHYLHEXANE	0.028
2,3,4-TRIMETHYLPENTANE	0.039
TOLUENE	0.545
1-METHYLCYCLOHEXENE	0.039
2-METHYLHEPTANE	0.038
3-METHYLHEPTANE	0.043
TETRACHLOROETHENE	0.076
OCTANE	0.035
CHLOROBENZENE	0.282
ETHYLBENZENE	0.012
DECANE	0.047

```
           SAMPLE DO-A017-234-11:15-1

                                    COMPOUND NAME   AMOUNT
                                                    ug/m^3

                                          PENTANE    0.154
                            2-METHYL-1,3-BUTADIENE   0.536
                                   TRANS-2-PENTENE   0.020
                                  2-METHYL-2-BUTENE  0.063
                                 4-METHYL-1-PENTENE  0.078
                                      CYCLOPENTANE   0.027
                                 2,3-DIMETHYLBUTANE  0.031
                                   2-METHYLPENTANE   0.163
                                   3-METHYLPENTANE   0.159
                                          1-HEXENE   0.036
                                            HEXANE   0.146
                                   TRICHLOROMETHANE  0.152
                                      CIS-2-HEXENE   0.036
                                 METHYLCYCLOPENTANE  0.051
                                2,4-DIMETHYLPENTANE  0.191
                                           BENZENE   0.227
                                 TETRACHLOROMETHANE  0.248
             2,3-DIMETHYLPENTANE/2-METHYLHEXANE      0.090
                                    3-METHYLHEXANE   0.064
                            2,2,4-TRIMETHYLPENTANE   0.037
                                           HEPTANE   0.058
                         2,4,4-TRIMETHYL-2-PENTENE   0.023
                            2,3,4-TRIMETHYLPENTANE   0.020
                                           TOLUENE   0.260
                                   2-METHYLHEPTANE   0.019
                                   3-METHYLHEPTANE   0.023
                                            OCTANE   0.021
                                      CHLOROBENZENE  1.381
```

SAMPLE D0-A054-238-00:50-1

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.023
2-BUTYNE	0.038
PENTANE	0.153
2-METHYL-1,3-BUTADIENE	0.227
2-METHYL-2-BUTENE	0.044
2,2-DIMETHYLBUTANE	0.084
4-METHYL-1-PENTENE	0.064
2-METHYLPENTANE	0.083
TRANS-4-METHYL-1-PENTENE	0.056
3-METHYLPENTANE	0.144
1-HEXENE	0.037
HEXANE	0.072
METHYLCYCLOPENTANE	0.025
2,4-DIMETHYLPENTANE	0.169
1,1,1-TRICHLOROETHANE	0.236
BENZENE	0.174
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.031
3-METHYLHEXANE	0.234
TOLUENE	0.084
c-1,3-DIMETHYLCYCLOHEXANE	0.256
1,1-DIMETHYLCYCLOHEXANE	0.128
TETRACHLOROETHENE	0.429
CHLOROBENZENE	10.248
p- AND m-XYLENE	0.036
a-PINENE	0.148
b-PINENE	0.025

SAMPLE A035-234-17:10-3

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYL-1-BUTENE	0.029
PENTANE	0.212
2-METHYL-1,3-BUTADIENE	2.338
TRANS-2-PENTENE	0.028
CIS-2-PENTENE	0.015
2-METHYL-2-BUTENE	0.075
2,2-DIMETHYLBUTANE	0.080
4-METHYL-1-PENTENE	0.110
CYCLOPENTANE	0.026
2-METHYLPENTANE	0.124
3-METHYLPENTANE	0.184
1-HEXENE	0.033
HEXANE	0.105
TRICHLOROMETHANE	0.175
CIS-2-HEXENE	0.029
METHYLCYCLOPENTANE	0.044
2,4-DIMETHYLPENTANE	0.184
1,1,1-TRICHLOROETHANE	0.180
BENZENE	0.204
TETRACHLOROMETHANE	0.247
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.048
3-METHYLHEXANE	0.127
2,2,4-TRIMETHYLPENTANE	0.042
TOLUENE	0.097
c-1,3-DIMETHYLCYCLOHEXANE	0.065
CHLOROBENZENE	0.435
ETHYLBENZENE	0.015
p- AND m-XYLENE	0.026
a-PINENE	0.035

SAMPLE D0-A041-240-08:40-2

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
1-PENTENE	0.061
2-METHYL-1-BUTENE	0.022
PENTANE	0.869
2-METHYL-1,3-BUTADIENE	0.089
TRANS-2-PENTENE	0.024
2-METHYL-2-BUTENE	0.057
2,2-DIMETHYLBUTANE	0.162
4-METHYL-1-PENTENE	0.055
CYCLOPENTANE	0.082
2,3-DIMETHYLBUTANE	0.115
2-METHYLPENTANE	0.426
3-METHYLPENTANE	0.344
HEXANE	0.199
METHYLCYCLOPENTANE	0.093
2,4-DIMETHYLPENTANE	0.100
1,1,1-TRICHLOROETHANE	0.227
BENZENE	0.238
CYCLOHEXANE	0.047
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.142
3-METHYLHEXANE	0.210
2,2,4-TRIMETHYLPENTANE	0.092
HEPTANE	0.050
2,2-DIMETHYLHEXANE	0.032
2,4,4-TRIMETHYL-2-PENTENE	0.015
2,3,4-TRIMETHYLPENTANE	0.026
TOLUENE	0.403
2-METHYLHEPTANE	0.026
3-METHYLHEPTANE	0.036
c-1,3-DIMETHYLCYCLOHEXANE	0.063
1,1-DIMETHYLCYCLOHEXANE	0.078
TETRACHLOROETHENE	0.323
OCTANE	0.042
CHLOROBENZENE	0.718
ETHYLBENZENE	0.095
p- AND m-XYLENE	0.181
o-XYLENE	0.065
a-PINENE	0.021

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SAMPLE  DO-A011-238-16:00-3

                          COMPOUND NAME   AMOUNT


                      2-METHYL-1-BUTENE    0.020
                                PENTANE    0.174
                 2-METHYL-1,3-BUTADIENE    1.219
                      2-METHYL-2-BUTENE    0.074
                     2,2-DIMETHYLBUTANE    0.081
                     4-METHYL-1-PENTENE    0.077
                           CYCLOPENTANE    0.017
                     2,3-DIMETHYLBUTANE    0.017
                        2-METHYLPENTANE    0.080
                        3-METHYLPENTANE    0.101
                                 HEXANE    0.053
                     METHYLCYCLOPENTANE    0.015
                   2,4-DIMETHYLPENTANE     0.145
                                BENZENE    0.218
  2,3-DIMETHYLPENTANE/2-METHYLHEXANE       0.034
                          3-METHYLHEXANE   0.026
                 2,2,4-TRIMETHYLPENTANE    0.038
                                HEPTANE    0.030
                                TOLUENE    0.143
                1,1-DIMETHYLCYCLOHEXANE    0.015
                      TETRACHLOROETHENE    0.153
```

SAMPLE D0-A006-241-17:00-4

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.125
2-METHYL-1,3-BUTADIENE	2.619
TRANS-2-PENTENE	0.038
2-METHYL-2-BUTENE	0.045
2,2-DIMETHYLBUTANE	0.077
4-METHYL-1-PENTENE	0.073
2,3-DIMETHYLBUTANE	0.017
2-METHYLPENTANE	0.082
3-METHYLPENTANE	0.154
HEXANE	0.059
METHYLCYCLOPENTANE	0.022
2,4-DIMETHYLPENTANE	0.132
BENZENE	0.142
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.032
3-METHYLHEXANE	0.029
2,2,4-TRIMETHYLPENTANE	0.024
HEPTANE	0.017
2,4,4-TRIMETHYL-2-PENTENE	0.031
TOLUENE	0.081
1,1-DIMETHYLCYCLOHEXANE	0.031
TETRACHLOROETHENE	0.184
a-PINENE	0.041

SAMPLE DO-A010-241-08:40-2

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
1-PENTENE	0.044
2-METHYL-1-BUTENE	0.078
PENTANE	0.594
2-METHYL-1,3-BUTADIENE	0.397
TRANS-2-PENTENE	0.114
CIS-2-PENTENE	0.044
2-METHYL-2-BUTENE	0.157
2,2-DIMETHYLBUTANE	0.115
CYCLOPENTENE	0.022
4-METHYL-1-PENTENE	0.115
CYCLOPENTANE	0.066
2,3-DIMETHYLBUTANE	0.089
2-METHYLPENTANE	0.388
3-METHYLPENTANE	0.317
2-METHYL-1-PENTENE	0.018
HEXANE	0.259
TRICHLOROMETHANE	0.199
TRANS-2-HEXENE	0.029
2-METHYL-2-PENTENE	0.027
CIS-2-HEXENE	0.029
CIS-3-METHYL-2-PENTENE	0.020
METHYLCYCLOPENTANE	0.109
2,4-DIMETHYLPENTANE	0.171
1,1,1-TRICHLOROETHANE	0.208
BENZENE	0.274
TETRACHLOROMETHANE	0.204
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.182
3-METHYLHEXANE	0.202
2,2,4-TRIMETHYLPENTANE	0.093
HEPTANE	0.049
2,2-DIMETHYLHEXANE	0.036
TOLUENE	0.383
2-METHYLHEPTANE	0.028
3-METHYLHEPTANE	0.033
c-1,3-DIMETHYLCYCLOHEXANE	0.055
1,1-DIMETHYLCYCLOHEXANE	0.125
TETRACHLOROETHENE	0.482
TRANS-2-OCTENE	0.018
CHLOROBENZENE	0.090
ETHYLBENZENE	0.048
p- AND m-XYLENE	0.088
o-XYLENE	0.035
a-PINENE	0.154

SAMPLE D0-A058-243-02:30-1

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
1-PENTENE	0.035
2-BUTYNE	0.035
2-METHYL-1-BUTENE	0.061
PENTANE	0.422
2-METHYL-1,3-BUTADIENE	0.952
TRANS-2-PENTENE	0.083
CIS-2-PENTENE	0.031
2-METHYL-2-BUTENE	0.109
2,2-DIMETHYLBUTANE	0.100
4-METHYL-1-PENTENE	0.162
CYCLOPENTANE	0.053
2,3-DIMETHYLBUTANE	0.069
2-METHYLPENTANE	0.287
3-METHYLPENTANE	0.306
HEXANE	0.209
TRICHLOROMETHANE	0.208
CIS-2-HEXENE	0.045
METHYLCYCLOPENTANE	0.091
2,4-DIMETHYLPENTANE	0.179
1,1,1-TRICHLOROMETHANE	0.451
BENZENE	0.274
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.210
3-METHYLHEXANE	0.310
2,2,4-TRIMETHYLPENTANE	0.096
HEPTANE	0.022
2,2-DIMETHYLHEXANE	0.045
2,4,4-TRIMETHYL-2-PENTENE	0.050
TOLUENE	0.364
2-METHYLHEPTANE	0.026
3-METHYLHEPTANE	0.027
c-1,3-DIMETHYLCYCLOHEXANE	0.134
1,1-DIMETHYLCYCLOHEXANE	0.108
TETRACHLOROETHENE	0.451
CHLOROBENZENE	0.631
ETHYLBENZENE	0.041
p- AND m-XYLENE	0.093
o-XYLENE	0.033
a-PINENE	0.164
b-PINENE	0.023

SAMPLE DO-A008-242-08:30-2

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	0.180
1-PENTENE	0.021
2-BUTYNE	0.018
2-METHYL-1-BUTENE	0.042
PENTANE	0.339
2-METHYL-1,3-BUTADIENE	0.464
TRANS-2-PENTENE	0.117
CIS-2-PENTENE	0.021
DICHLOROMETHANE	0.281
2,2-DIMETHYLBUTANE	0.091
4-METHYL-1-PENTENE	0.212
CYCLOPENTANE	0.039
2,3-DIMETHYLBUTANE	0.051
2-METHYLPENTANE	0.371
TRANS-4-METHYL-1-PENTENE	0.333
3-METHYLPENTANE	0.234
2-METHYL-1-PENTENE	0.031
HEXANE	0.159
TRICHLOROMETHANE	0.164
CIS-2-HEXENE	0.027
METHYLCYCLOPENTANE	0.064
2,4-DIMETHYLPENTANE	0.196
1,1,1-TRICHLOROETHANE	0.263
BENZENE	0.252
TETRACHLOROMETHANE	0.199
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.165
3-METHYLHEXANE	0.302
2,2,4-TRIMETHYLPENTANE	0.069
HEPTANE	0.029
2,2-DIMETHYLHEXANE	0.015
2,3,4-TRIMETHYLPENTANE	0.035
TOLUENE	0.302
2-METHYLHEPTANE	0.018
4-METHYLHEPTANE	0.036
3-METHYLHEPTANE	0.020
c-1,3-DIMETHYLCYCLOHEXANE	0.314
1,1-DIMETHYLCYCLOHEXANE	0.222
1-OCTENE	0.067
TETRACHLOROETHENE	0.895
TRANS-2-OCTENE	0.026
CHLOROBENZENE	5.932
ETHYLBENZENE	0.038
p- AND m-XYLENE	0.102
STYRENE	0.184
o-XYLENE	0.051
a-PINENE	0.119
b-PINENE	0.041

```
SAMPLE DO-M0E9-243-09:55-3 OTTAWA SAMPLE

                     COMPOUND NAME   AMOUNT
                                     ug/m^3

                    2-METHYLBUTANE    0.969
                          1-PENTENE   0.045
                           2-BUTYNE   0.054
                 2-METHYL-1-BUTENE    0.053
                            PENTANE   0.385
            2-METHYL-1,3-BUTADIENE    1.863
                   TRANS-2-PENTENE    0.067
                     CIS-2-PENTENE    0.027
                 2-METHYL-2-BUTENE    0.108
                2,2-DIMETHYLBUTANE    0.103
                       CYCLOPENTENE   0.019
                4-METHYL-1-PENTENE    0.201
                       CYCLOPENTANE   0.054
                2,3-DIMETHYLBUTANE    0.064
                   2-METHYLPENTANE    0.270
         TRANS-4-METHYL-1-PENTENE     0.037
                   3-METHYLPENTANE    0.233
                             HEXANE   0.214
                  TRICHLOROMETHANE    0.198
                    TRANS-2-HEXENE    0.022
                       CIS-2-HEXENE   0.031
                METHYLCYCLOPENTANE    0.085
              2,4-DIMETHYLPENTANE     0.180
                            BENZENE   0.250
2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.113
                    3-METHYLHEXANE    0.073
            2,2,4-TRIMETHYLPENTANE    0.097
                            HEPTANE   0.053
                2,2-DIMETHYLHEXANE    0.030
                2,5-DIMETHYLHEXANE    0.017
            2,3,4-TRIMETHYLPENTANE    0.033
                            TOLUENE   0.356
               1-METHYLCYCLOHEXENE    0.020
                   2-METHYLHEPTANE    0.023
                   3-METHYLHEPTANE    0.028
           1,1-DIMETHYLCYCLOHEXANE    0.033
                 TETRACHLOROETHENE    0.108
                             OCTANE   0.025
                       ETHYLBENZENE   0.046
                   p- AND m-XYLENE    0.107
                           o-XYLENE   0.040
                           a-PINENE   0.090
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SAMPLE DO-A044-243-09:40-2 OTTAWA COMPARISON SAMPL

                           COMPOUND NAME   AMOUNT
                                           ug/m^3

                     2,2-DIMETHYLPROPANE
                               1-PENTENE    0.076
                                2-BUTYNE    0.071
                       2-METHYL-1-BUTENE    0.074
                                 PENTANE    0.232
                  2-METHYL-1,3-BUTADIENE    1.373
                         TRANS-2-PENTENE    0.052
                       2-METHYL-2-BUTENE    0.058
                      2,2-DIMETHYLBUTANE    0.073
                      4-METHYL-1-PENTENE    0.263
                            CYCLOPENTANE    0.028
                      2,3-DIMETHYLBUTANE    0.029
                         2-METHYLPENTANE    0.120
                         3-METHYLPENTANE    0.243
                                1-HEXENE    0.043
                                  HEXANE    0.104
                        TRICHLOROMETHANE    0.168
                            CIS-2-HEXENE    0.061
                      METHYLCYCLOPENTANE    0.043
                     2,4-DIMETHYLPENTANE    0.151
                   1,1,1-TRICHLOROETHANE    0.410
                                 BENZENE    0.203
      2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.057
                          3-METHYLHEXANE    0.180
                  2,2,4-TRIMETHYLPENTANE    0.089
                                 HEPTANE    0.033
                      2,2-DIMETHYLHEXANE    0.031
               2,4,4-TRIMETHYL-2-PENTENE    0.035
                                 TOLUENE    0.250
                     1-METHYLCYCLOHEXENE    0.034
                         2-METHYLHEPTANE    0.031
                         3-METHYLHEPTANE    0.023
                                  OCTANE    0.020
                          TRANS-2-OCTENE    0.018
                            ETHYLBENZENE    0.028
                         p- AND m-XYLENE    0.067
                                o-XYLENE    0.030
                                a-PINENE    0.107
                                b-PINENE    0.028
```

SAMPLE DO-A086-243-19:00-5 OTTAWA COMPARISON SAMPL

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	1.461
1-PENTENE	0.040
2-METHYL-1-BUTENE	0.099
PENTANE	0.490
2-METHYL-1,3-BUTADIENE	2.654
TRANS-2-PENTENE	0.136
CIS-2-PENTENE	0.044
2-METHYL-2-BUTENE	0.194
2,2-DIMETHYLBUTANE	0.117
CYCLOPENTENE	0.066
4-METHYL-1-PENTENE	0.209
CYCLOPENTANE	0.075
2,3-DIMETHYLBUTANE	0.106
2-METHYLPENTANE	0.769
3-METHYLPENTANE	0.500
2-METHYL-1-PENTENE	0.015
HEXANE	0.434
TRICHLOROMETHANE	0.263
TRANS-2-HEXENE	0.030
2-METHYL-2-PENTENE	0.031
CIS-2-HEXENE	0.042
CIS-3-METHYL-2-PENTENE	0.019
METHYLCYCLOPENTANE	0.197
2,4-DIMETHYLPENTANE	0.117
1,1,1-TRICHLOROETHANE	0.393
BENZENE	0.488
CYCLOHEXANE	0.042
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.485
3-METHYLHEXANE	0.403
TRICHLOROETHENE	0.191
2,2,4-TRIMETHYLPENTANE	0.183
HEPTANE	0.195
METHYLCYCLOHEXANE	0.019
2,2-DIMETHYLHEXANE	0.091
2,4,4-TRIMETHYL-2-PENTENE	0.023
2,5-DIMETHYLHEXANE	0.045
2,3,4-TRIMETHYLPENTANE	0.067
TOLUENE	0.715
1-METHYLCYCLOHEXENE	0.053
2-METHYLHEPTANE	0.097
3-METHYLHEPTANE	0.124
c-1,3-DIMETHYLCYCLOHEXANE	0.020
2,2,5-TRIMETHYLHEXANE	0.028
1,1-DIMETHYLCYCLOHEXANE	0.025
TETRACHLOROETHENE	0.130
OCTANE	0.089
TRANS-2-OCTENE	0.024
ETHYLCYCLOHEXANE	0.028
ETHYLBENZENE	0.131
p- AND m-XYLENE	0.327

SAMPLE D0-EPS9-243-18:50-4 OTTAWA SAMPLE

COMPOUND NAME	AMOUNT ug/m^3
TRANS-2-BUTENE	
2-METHYLBUTANE	0.099
2-BUTYNE	0.081
PENTANE	0.137
2-METHYL-1,3-BUTADIENE	1.990
2-METHYL-2-BUTENE	0.052
2,2-DIMETHYLBUTANE	0.080
4-METHYL-1-PENTENE	0.146
CYCLOPENTANE	0.102
2,3-DIMETHYLBUTANE	0.017
2-METHYLPENTANE	0.086
TRANS-4-METHYL-1-PENTENE	0.058
3-METHYLPENTANE	0.150
2-ETHYL-1-BUTENE	0.018
HEXANE	0.080
TRICHLOROMETHANE	0.188
CIS-2-HEXENE	0.017
METHYLCYCLOPENTANE	0.030
2,4-DIMETHYLPENTANE	0.162
BENZENE	0.163
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.078
3-METHYLHEXANE	0.035
2,2,4-TRIMETHYLPENTANE	0.020
HEPTANE	0.037
2,3,4-TRIMETHYLPENTANE	0.040
TOLUENE	0.181
1,1-DIMETHYLCYCLOHEXANE	0.026
TETRACHLOROETHENE	0.088
OCTANE	0.018
ETHYLBENZENE	0.023
p- AND m-XYLENE	0.046
o-XYLENE	0.024
a-PINENE	0.148
3-ETHYLTOLUENE	0.017
b-PINENE	0.046

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                                          STYRENE    0.045
                                         o-XYLENE    0.143
                                           NONANE    0.031
                                         a-PINENE    0.164
                                     PROPYLBENZENE   0.054
                                   3-ETHYLTOLUENE    0.102
                                   4-ETHYLTOLUENE    0.049
                          1,3,5-TRIMETHYLBENZENE     0.041
                                         b-PINENE    0.088
    1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE        0.071
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APPENDIX 2

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SAMPLE EG-A025-206-16:10-3

                                 COMPOUND NAME   AMOUNT
                                                 ug/m^3

                                2-METHYLBUTANE    0.241
                                       PENTANE    0.167
                      2-METHYL-1,3-BUTADIENE    3.126
                          2,2-DIMETHYLBUTANE    0.104
                                        HEXANE    0.074
                                       BENZENE    0.348
                                   CYCLOHEXANE    0.079
                                       TOLUENE    0.092
```

SAMPLE EG-A035-204-08:25-1 (35PSI)

COMPOUND NAME	AMOUNT ug/m^3
BUTANE	
2-METHYLBUTANE	1.452
PENTANE	0.675
2-METHYL-1,3-BUTADIENE	3.858
DICHLOROMETHANE	0.325
2,2-DIMETHYLBUTANE	0.134
4-METHYL-1-PENTENE	0.185
2,3-DIMETHYLBUTANE	0.096
2-METHYLPENTANE	0.476
3-METHYLPENTANE	0.330
HEXANE	0.375
CIS-3-METHYL-2-PENTENE	0.183
2,4-DIMETHYLPENTANE	0.251
BENZENE	0.556
CYCLOHEXANE	0.196
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.225
3-METHYLHEXANE	0.176
2,2,4-TRIMETHYLPENTANE	0.149
HEPTANE	0.137
2,4,4-TRIMETHYL-1-PENTENE	0.175
TOLUENE	0.536
CHLOROBENZENE	0.097
p- AND m-XYLENE	0.154
STYRENE	0.078
1,3,5-TRIMETHYLBENZENE	0.143
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.174
DECANE	0.062
UNDECANE	0.316

SAMPLE EG-A067-208-10:00-2

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	1.047
1-PENTENE	0.033
2-METHYL-1-BUTENE	0.035
PENTANE	0.479
2-METHYL-1,3-BUTADIENE	0.323
DICHLOROMETHANE	0.456
2,2-DIMETHYLBUTANE	0.129
CYCLOPENTANE	0.048
2,3-DIMETHYLBUTANE	0.059
2-METHYLPENTANE	0.279
3-METHYLPENTANE	0.173
1-HEXENE	0.033
HEXANE	0.217
METHYLCYCLOPENTANE	0.082
2,4-DIMETHYLPENTANE	0.232
BENZENE	0.344
CYCLOHEXANE	0.226
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.125
3-METHYLHEXANE	0.088
2,2,4-TRIMETHYLPENTANE	0.135
HEPTANE	0.065
2,2-DIMETHYLHEXANE	0.026
2,3,4-TRIMETHYLPENTANE	0.028
TOLUENE	0.685
2-METHYLHEPTANE	0.027
3-METHYLHEPTANE	0.036
TETRACHLOROETHENE	0.094
OCTANE	0.029

SAMPLE EG-A025-206-16:10-3

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.869
PENTANE	0.182
2-METHYL-1,3-BUTADIENE	3.390
DICHLOROMETHANE	0.244
2,2-DIMETHYLBUTANE	0.081
2,3-DIMETHYLBUTANE	0.151
CIS-4-METHYL-2-PENTENE	0.067
2-METHYLPENTANE	0.065
3-METHYLPENTANE	0.538
HEXANE	0.074
2,4-DIMETHYLPENTANE	0.206
BENZENE	0.814
CYCLOHEXANE	0.072
TOLUENE	0.326
CHLOROBENZENE	0.303
ETHYLBENZENE	0.034
p- AND m-XYLENE	0.096
o-XYLENE	0.065
4-ETHYLTOLUENE	0.042
1,3,5-TRIMETHYLBENZENE	0.055
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.078
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.171

SAMPLE EG-A011-210-16:55-3

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.374
2-METHYL-1,3-BUTADIENE	0.166
TRANS-2-PENTENE	0.039
2-METHYL-2-BUTENE	0.134
2,2-DIMETHYLBUTANE	0.143
CYCLOPENTANE	0.037
2,3-DIMETHYLBUTANE	0.033
2-METHYLPENTANE	0.158
3-METHYLPENTANE	0.127
1-HEXENE	0.048
HEXANE	0.106
METHYLCYCLOPENTANE	0.034
2,4-DIMETHYLPENTANE	0.116
BENZENE	0.097
CYCLOHEXANE	0.340
TOLUENE	0.034
CHLOROBENZENE	0.037

SAMPLE EG-A066-208-16:20-3

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.161
2-METHYL-1,3-BUTADIENE	0.512
DICHLOROMETHANE	0.178
2,2-DIMETHYLBUTANE	0.098
2-METHYLPENTANE	0.082
3-METHYLPENTANE	0.048
HEXANE	0.066
2,4-DIMETHYLPENTANE	0.196
BENZENE	0.220
CYCLOHEXANE	0.134
2,2,4-TRIMETHYLPENTANE	0.054
TOLUENE	0.043

1,1-DIMETHYLCYCLOHEXANE	0.203
1-OCTENE	0.230
TETRACHLOROETHENE	0.219
TETRACHLOROETHENE	1.078
OCTANE	0.125
TRANS-2-OCTENE	0.074
CHLOROBENZENE	0.405
ETHYLBENZENE	0.256
p- AND m-XYLENE	0.366
STYRENE	0.280
o-XYLENE	0.200
NONANE	0.024
3-CHLOROTOLUENE	0.062
PROPYLBENZENE	0.030
1,3,5-TRIMETHYLBENZENE	0.016
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.119
1,3-DICHLOROBENZENE	0.071
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.099
1,3-DIETHYLBENZENE	0.024

SAMPLE EG-A009-211-08:30-1

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLPROPANE	
TRANS-2-BUTENE	
2,2-DIMETHYLPROPANE	
CHLOROETHANE	0.147
3-METHYL-1-BUTENE	0.071
2-METHYLBUTANE	2.356
1-PENTENE	0.223
2-BUTYNE	0.309
2-METHYL-1-BUTENE	0.157
PENTANE	0.971
2-METHYL-1,3-BUTADIENE	2.096
TRANS-2-PENTENE	0.109
CIS-2-PENTENE	0.049
DICHLOROMETHANE	1.176
2,2-DIMETHYLBUTANE	0.734
CYCLOPENTENE	0.060
4-METHYL-1-PENTENE	0.677
CYCLOPENTANE	0.096
2,3-DIMETHYLBUTANE	0.111
2-METHYLPENTANE	0.913
3-METHYLPENTANE	0.691
1-HEXENE	0.315
HEXANE	0.539
TRICHLOROMETHANE	0.331
TRANS-2-HEXENE	0.059
2-METHYL-2-PENTENE	0.058
CIS-2-HEXENE	0.021
METHYLCYCLOPENTANE	0.196
1,2-DICHLOROETHANE	0.431
2,4-DIMETHYLPENTANE	0.351
1,1,1-TRICHLOROETHANE	0.763
BENZENE	2.258
TETRACHLOROMETHANE	0.244
CYCLOHEXANE	0.209
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.287
3-METHYLHEXANE	0.277
TRICHLOROETHENE	0.121
2,2,4-TRIMETHYLPENTANE	0.227
3-HEPTENE	0.185
HEPTANE	0.239
2,4,4-TRIMETHYL-1-PENTENE	0.050
METHYLCYCLOHEXANE	0.030
2,2-DIMETHYLHEXANE	0.124
2,4,4-TRIMETHYL-2-PENTENE	0.066
2,5-DIMETHYLHEXANE	0.066
2,3,4-TRIMETHYLPENTANE	0.091
TOLUENE	2.753
1-METHYLCYCLOHEXENE	0.070
2-METHYLHEPTANE	0.082
3-METHYLHEPTANE	0.100
c-1,3-DIMETHYLCYCLOHEXANE	0.091

SAMPLE EG-A012-211-16:30-2

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	0.652
PENTANE	0.063
2-METHYL-1,3-BUTADIENE	12.280
TRANS-2-PENTENE	0.032
DICHLOROMETHANE	0.226
2,2-DIMETHYLBUTANE	0.116
4-METHYL-1-PENTENE	0.236
2-METHYLPENTANE	0.074
TRANS-4-METHYL-1-PENTENE	0.059
3-METHYLPENTANE	0.145
HEXANE	0.066
TRICHLOROMETHANE	0.306
2,4-DIMETHYLPENTANE	0.057
BENZENE	0.189
CYCLOHEXANE	0.278
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.032
2,2,4-TRIMETHYLPENTANE	0.039
2,4,4-TRIMETHYL-2-PENTENE	0.053
TOLUENE	0.134
a-PINENE	0.045

SAMPLE EG-A009-211-08:30-1 REPEAT

COMPOUND NAME	AMOUNT ug/m^3
PROPYNE	
1-PENTENE	0.031
PENTANE	0.923
2-METHYL-1,3-BUTADIENE	1.041
2-METHYL-2-BUTENE	0.180
2,2-DIMETHYLBUTANE	0.762
CYCLOPENTANE	0.087
2,3-DIMETHYLBUTANE	0.109
2-METHYLPENTANE	0.481
3-METHYLPENTANE	0.304
HEXANE	0.426
METHYLCYCLOPENTANE	0.160
2,4-DIMETHYLPENTANE	0.247
BENZENE	0.185
CYCLOHEXANE	0.209
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.099
3-METHYLHEXANE	0.048
2,2,4-TRIMETHYLPENTANE	0.054

SAMPLE EG-A077-214-21:46-3

COMPOUND NAME	AMOUNT ug/m^3
3-METHYL-1-BUTENE	0.063
2-METHYLBUTANE	5.378
2-METHYL-1-BUTENE	0.055
PENTANE	2.427
2-METHYL-1,3-BUTADIENE	0.579
DICHLOROMETHANE	0.634
2,2-DIMETHYLBUTANE	0.278
4-METHYL-1-PENTENE	0.416
CYCLOPENTANE	0.229
2,3-DIMETHYLBUTANE	0.327
2-METHYLPENTANE	1.473
3-METHYLPENTANE	1.085
1-HEXENE	0.056
HEXANE	1.093
METHYLCYCLOPENTANE	0.471
BENZENE	1.653
CYCLOHEXANE	0.277
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.735
3-METHYLHEXANE	0.509
TRICHLOROETHENE	0.309
2,2,4-TRIMETHYLPENTANE	0.661
HEPTANE	0.331
2,2-DIMETHYLHEXANE	0.163
2,5-DIMETHYLHEXANE	0.111
2,3,4-TRIMETHYLPENTANE	0.215
TOLUENE	2.892
1-METHYLCYCLOHEXENE	0.126
2-METHYLHEPTANE	0.204
3-METHYLHEPTANE	0.290
2,2,5-TRIMETHYLHEXANE	0.061
1-OCTENE	0.064
TETRACHLOROETHENE	0.185
OCTANE	0.248
c-1,2-DIMETHYLCYCLOHEXANE	0.035
ETHYLCYCLOHEXANE	0.100
ETHYLBENZENE	0.446
m- AND p-XYLENE	0.898
STYRENE	0.139
o-XYLENE	0.300
NONANE	0.087
a-PINENE	0.034

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SAMPLE EG-A032-213-21:45-3

                           COMPOUND NAME   AMOUNT
                                           ug/m^3

                     2,2-DIMETHYLPROPANE
                          2-METHYLBUTANE    0.964
                       2-METHYL-1-BUTENE    0.062
                                 PENTANE    0.464
                  2-METHYL-1,3-BUTADIENE    5.045
                         TRANS-2-PENTENE    0.067
                       2-METHYL-2-BUTENE    0.087
                      2,2-DIMETHYLBUTANE    0.111
                      4-METHYL-1-PENTENE    0.277
                            CYCLOPENTANE    0.048
                      2,3-DIMETHYLBUTANE    0.063
                         2-METHYLPENTANE    0.302
                TRANS-4-METHYL-1-PENTENE    0.050
                         3-METHYLPENTANE    0.237
                                  HEXANE    0.228
                        TRICHLOROMETHANE    0.389
                      METHYLCYCLOPENTANE    0.097
                     2,4-DIMETHYLPENTANE    0.202
                                 BENZENE    0.296
                             CYCLOHEXANE    0.091
      2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.153
                          3-METHYLHEXANE    0.122
                  2,2,4-TRIMETHYLPENTANE    0.134
                                 HEPTANE    0.076
                      2,2-DIMETHYLHEXANE    0.025
                  2,3,4-TRIMETHYLPENTANE    0.043
                                 TOLUENE    0.514
                         2-METHYLHEPTANE    0.034
                         3-METHYLHEPTANE    0.040
                  1,3,5-TRIMETHYLBENZENE    0.029
```

SAMPLE EG-A022-219-08:20-1

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.448
2-METHYL-1,3-BUTADIENE	0.564
2-METHYL-2-BUTENE	0.053
2,2-DIMETHYLBUTANE	0.154
CYCLOPENTANE	0.032
2,3-DIMETHYLBUTANE	0.057
2-METHYLPENTANE	0.210
3-METHYLPENTANE	0.118
HEXANE	0.095
METHYLCYCLOPENTANE	0.036

SAMPLE EG-A096-218-16:40-2

COMPOUND NAME	AMOUNT ug/m^3
PROPYNE	
1,3-BUTADIENE	
2,2-DIMETHYLPROPANE	
2-METHYL-1-BUTENE	0.038
PENTANE	0.494
2-METHYL-1,3-BUTADIENE	2.337
2-METHYL-2-BUTENE	0.126
2,2-DIMETHYLBUTANE	0.177
CYCLOPENTANE	0.030
2,3-DIMETHYLBUTANE	0.047
2-METHYLPENTANE	0.229
3-METHYLPENTANE	0.143
HEXANE	0.179
TRICHLOROMETHANE	0.179
METHYLCYCLOPENTANE	0.058
2,4-DIMETHYLPENTANE	0.196
BENZENE	0.315
CYCLOHEXANE	0.093
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.070
3-METHYLHEXANE	0.049
2,2,4-TRIMETHYLPENTANE	0.062
TOLUENE	0.029

SAMPLE EG-A099-220-09:30-1

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.087
2-BUTYNE	0.035
PENTANE	0.074
2-METHYL-1,3-BUTADIENE	2.716
DICHLOROMETHANE	0.130
2,2-DIMETHYLBUTANE	0.068
4-METHYL-1-PENTENE	0.044
2-METHYLPENTANE	0.048
3-METHYLPENTANE	0.034
HEXANE	0.045
TRICHLOROMETHANE	0.176
METHYLCYCLOPENTANE	0.014
2,4-DIMETHYLPENTANE	0.145
BENZENE	0.134
CYCLOHEXANE	0.043
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.027
3-METHYLHEXANE	0.020
2,2,4-TRIMETHYLPENTANE	0.013
HEPTANE	0.030
TOLUENE	0.168
2-METHYLHEPTANE	0.025
3-METHYLHEPTANE	0.019
OCTANE	0.023
CHLOROBENZENE	0.025
p- AND m-XYLENE	0.033

SAMPLE EG-A091-219-22:10-3

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.265
PENTANE	0.083
2-METHYL-1,3-BUTADIENE	0.366
DICHLOROMETHANE	0.114
2,2-DIMETHYLBUTANE	0.083
4-METHYL-1-PENTENE	0.192
2-METHYLPENTANE	0.042
3-METHYLPENTANE	0.180
2-ETHYL-1-BUTENE	0.036
2,4-DIMETHYLPENTANE	0.161
BENZENE	0.124
TETRACHLOROMETHANE	0.216
CYCLOHEXANE	0.051
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.023
TOLUENE	0.094
CHLOROBENZENE	0.048
ETHYLBENZENE	0.046
p- AND m-XYLENE	0.087
STYRENE	0.023
o-XYLENE	0.025
a-PINENE	0.161
b-PINENE	0.039
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.040

SAMPLE EG-A067-220-21:40-3

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.139
2-METHYL-1,3-BUTADIENE	1.230
2-METHYL-2-BUTENE	0.036
2,2-DIMETHYLBUTANE	0.104
CYCLOPENTANE	0.019
2,3-DIMETHYLBUTANE	0.019
2-METHYLPENTANE	0.081
3-METHYLPENTANE	0.054
HEXANE	0.056
METHYLCYCLOPENTANE	0.025
2,4-DIMETHYLPENTANE	0.115
BENZENE	0.047
CYCLOHEXANE	0.039

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SAMPLE EG-A061-220-17:10-2

                         COMPOUND NAME   AMOUNT
                                         ug/m^3

                        2-METHYLBUTANE    0.208
                     2-METHYL-1-BUTENE    0.051
                               PENTANE    0.066
                2-METHYL-1,3-BUTADIENE    2.267
                     2-METHYL-2-BUTENE    0.074
                    2,2-DIMETHYLBUTANE    0.078
                    4-METHYL-1-PENTENE    0.176
                       2-METHYLPENTANE    0.027
                       3-METHYLPENTANE    0.193
                                HEXANE    0.034
                      TRICHLOROMETHANE    0.113
                   2,4-DIMETHYLPENTANE    0.165
                 1,1,1-TRICHLOROETHANE    0.082
                               BENZENE    0.132
                     TETRACHLOROMETHANE   0.168
                           CYCLOHEXANE    0.042
    2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.022
                         3-METHYLHEXANE   0.028
                               HEPTANE    0.022
              2,4,4-TRIMETHYL-2-PENTENE   0.040
                               TOLUENE    0.101
                                OCTANE    0.018
                          CHLOROBENZENE   0.025
                       p- AND m-XYLENE    0.035
                              o-XYLENE    0.015
                              a-PINENE    0.144
                              b-PINENE    0.024
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE    0.052
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 DUB0:[MIDDLETON]EG221X2.PRN;2                                   28-SEP-1989
15:17                                    Page 1

           SAMPLE EG-A025-221-16:30-1

                                      COMPOUND NAME    AMOUNT
                                                       ug/m^3

                                            PENTANE     0.226
                             2-METHYL-1,3-BUTADIENE     1.381
                                 2-METHYL-2-BUTENE      0.068
                                2,2-DIMETHYLBUTANE      0.095
                                       CYCLOPENTANE     0.022
                                2,3-DIMETHYLBUTANE      0.023
                                    2-METHYLPENTANE     0.090
                                    3-METHYLPENTANE     0.074
                                             HEXANE     0.079
                                METHYLCYCLOPENTANE      0.024
                               2,4-DIMETHYLPENTANE      0.204
                                            BENZENE     0.211
                                TETRACHLOROMETHANE      0.301
                                        CYCLOHEXANE     0.099
              2,3-DIMETHYLPENTANE/2-METHYLHEXANE        0.025
                                     3-METHYLHEXANE     0.015
                             2,2,4-TRIMETHYLPENTANE     0.045
                          2,4,4-TRIMETHYL-2-PENTENE     0.024
                                            TOLUENE     0.029
```

SAMPLE EG-A043-221-08:50-1

COMPOUND NAME	AMOUNT ug/m^3
1-BUTYNE	0.057
1-PENTENE	0.047
2-METHYL-1-BUTENE	0.067
PENTANE	0.413
2-METHYL-1,3-BUTADIENE	0.244
TRANS-2-PENTENE	0.058
CIS-2-PENTENE	0.035
2-METHYL-2-BUTENE	0.128
2,2-DIMETHYLBUTANE	0.126
CYCLOPENTANE	0.037
2,3-DIMETHYLBUTANE	0.057
2-METHYLPENTANE	0.231
3-METHYLPENTANE	0.146
1-HEXENE	0.028
HEXANE	0.151
METHYLCYCLOPENTANE	0.060
2,4-DIMETHYLPENTANE	0.177
BENZENE	0.188
CYCLOHEXANE	0.075
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.090
3-METHYLHEXANE	0.062
2,2,4-TRIMETHYLPENTANE	0.049
HEPTANE	0.046
2,2-DIMETHYLHEXANE	0.030
TOLUENE	0.137

SAMPLE EG-A057-223-22:37-3

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.618
1-PENTENE	0.037
2-METHYL-1-BUTENE	0.042
PENTANE	0.341
2-METHYL-1,3-BUTADIENE	2.691
2-METHYL-2-BUTENE	0.069
2,2-DIMETHYLBUTANE	0.094
CYCLOPENTANE	0.037
2,3-DIMETHYLBUTANE	0.050
2-METHYLPENTANE	0.230
3-METHYLPENTANE	0.149
1-HEXENE	0.034
HEXANE	0.173
METHYLCYCLOPENTANE	0.070
2,4-DIMETHYLPENTANE	0.103
BENZENE	0.328
CYCLOHEXANE	0.133
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.119
3-METHYLHEXANE	0.080
2,2,4-TRIMETHYLPENTANE	0.094
HEPTANE	0.052
2,2-DIMETHYLHEXANE	0.022
TOLUENE	0.060
CHLOROBENZENE	0.166

SAMPLE EG-A044-221-21:20-3

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	1.296
1-PENTENE	0.067
2-BUTYNE	0.114
2-METHYL-1-BUTENE	0.060
PENTANE	0.545
2-METHYL-1,3-BUTADIENE	1.266
TRANS-2-PENTENE	0.020
DICHLOROMETHANE	0.287
2,2-DIMETHYLBUTANE	0.152
4-METHYL-1-PENTENE	0.316
CYCLOPENTANE	0.056
2,3-DIMETHYLBUTANE	0.084
CIS-4-METHYL-2-PENTENE	0.275
2-METHYLPENTANE	0.398
TRANS-4-METHYL-1-PENTENE	0.369
3-METHYLPENTANE	0.421
2-METHYL-1-PENTENE	0.056
HEXANE	0.288
TRICHLOROMETHANE	0.236
2-METHYL-2-PENTENE	0.043
CIS-2-HEXENE	0.017
METHYLCYCLOPENTANE	0.126
2,4-DIMETHYLPENTANE	0.264
1,1,1-TRICHLOROETHANE	0.334
BENZENE	0.493
TETRACHLOROMETHANE	0.514
CYCLOHEXANE	0.227
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.342
3-METHYLHEXANE	0.226
TRICHLOROETHENE	0.130
2,2,4-TRIMETHYLPENTANE	0.263
HEPTANE	0.163
2,2-DIMETHYLHEXANE	0.081
2,4,4-TRIMETHYL-2-PENTENE	0.059
2,5-DIMETHYLHEXANE	0.050
2,3,4-TRIMETHYLPENTANE	0.083
TOLUENE	1.214
1-METHYLCYCLOHEXENE	0.055
2-METHYLHEPTANE	0.080
3-METHYLHEPTANE	0.103
2,2,5-TRIMETHYLHEXANE	0.026
1-OCTENE	0.053
TETRACHLOROETHENE	0.074
OCTANE	0.088
CHLOROBENZENE	0.035
ETHYLBENZENE	0.309
p- AND m-XYLENE	0.571
STYRENE	0.056
o-XYLENE	0.159
NONANE	0.027
a-PINENE	0.030

SAMPLE EG-A019-225-08:15-1

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.028
2-METHYL-1-BUTENE	0.041
PENTANE	0.848
2-METHYL-1,3-BUTADIENE	0.236
TRANS-2-PENTENE	0.037
2-METHYL-2-BUTENE	0.161
2,2-DIMETHYLBUTANE	0.184
4-METHYL-1-PENTENE	0.070
CYCLOPENTANE	0.073
2,3-DIMETHYLBUTANE	0.116
2-METHYLPENTANE	0.523
3-METHYLPENTANE	0.395
1-HEXENE	0.038
HEXANE	0.406
METHYLCYCLOPENTANE	0.153
2,4-DIMETHYLPENTANE	0.401
BENZENE	0.560
CYCLOHEXANE	0.171
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.236
3-METHYLHEXANE	0.160
TRICHLOROETHENE	0.099
2,2,4-TRIMETHYLPENTANE	0.211
HEPTANE	0.085
2,2-DIMETHYLHEXANE	0.052
2,4,4-TRIMETHYL-2-PENTENE	0.030
2,5-DIMETHYLHEXANE	0.018
2,3,4-TRIMETHYLPENTANE	0.033
TOLUENE	0.544
2-METHYLHEPTANE	0.024
3-METHYLHEPTANE	0.030
TETRACHLOROETHENE	0.095
OCTANE	0.021
CHLOROBENZENE	0.160
ETHYLBENZENE	0.067
p- AND m-XYLENE	0.129
o-XYLENE	0.028

SAMPLE EG-A077-224-16:15-2

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.049
2-METHYL-1-BUTENE	0.029
PENTANE	1.838
2-METHYL-1,3-BUTADIENE	0.774
2-METHYL-2-BUTENE	0.349
2,2-DIMETHYLBUTANE	0.287
CYCLOPENTANE	0.157
2,3-DIMETHYLBUTANE	0.248
2-METHYLPENTANE	1.151
3-METHYLPENTANE	0.780
HEXANE	0.974
METHYLCYCLOPENTANE	0.338
2,4-DIMETHYLPENTANE	0.583
BENZENE	0.664
CYCLOHEXANE	0.152
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.352
3-METHYLHEXANE	0.219
TRICHLOROETHENE	0.151
2,2,4-TRIMETHYLPENTANE	0.198
HEPTANE	0.094
2,2-DIMETHYLHEXANE	0.085
TOLUENE	0.187
CHLOROBENZENE	0.067

SAMPLE EG-A071-226-09:00-1

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.317
PENTANE	0.147
2-METHYL-1,3-BUTADIENE	0.153
2,2-DIMETHYLBUTANE	0.046
4-METHYL-1-PENTENE	0.075
2-METHYLPENTANE	0.088
TRANS-4-METHYL-1-PENTENE	0.039
3-METHYLPENTANE	0.149
HEXANE	0.102
METHYLCYCLOPENTANE	0.036
2,4-DIMETHYLPENTANE	0.102
1,1,1-TRICHLOROETHANE	0.497
BENZENE	0.332
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.076
3-METHYLHEXANE	0.085
2,2,4-TRIMETHYLPENTANE	0.069
HEPTANE	0.100
2,2-DIMETHYLHEXANE	0.025
TOLUENE	0.574
1,1-DIMETHYLCYCLOHEXANE	0.028
CHLOROBENZENE	0.503

SAMPLE EG-A006-225-16:05-2

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.421
PENTANE	0.180
2-METHYL-1,3-BUTADIENE	2.721
2-METHYL-2-BUTENE	0.050
2,2-DIMETHYLBUTANE	0.088
2-METHYLPENTANE	0.082
3-METHYLPENTANE	0.054
1-HEXENE	0.028
HEXANE	0.064
TRICHLOROMETHANE	0.106
METHYLCYCLOPENTANE	0.019
2,4-DIMETHYLPENTANE	0.042
BENZENE	0.197
CYCLOHEXANE	0.163
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.030
3-METHYLHEXANE	0.020
2,2,4-TRIMETHYLPENTANE	0.056
HEPTANE	0.017
2,4,4-TRIMETHYL-2-PENTENE	0.030
TOLUENE	0.042
CHLOROBENZENE	0.137

SAMPLE EG-A054-227-21:15-3

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.714
PENTANE	0.318
2-METHYL-1,3-BUTADIENE	0.397
2-METHYL-2-BUTENE	0.072
2,2-DIMETHYLBUTANE	0.099
2,3-DIMETHYLBUTANE	0.037
2-METHYLPENTANE	0.161
3-METHYLPENTANE	0.099
HEXANE	0.115
BENZENE	0.225
CYCLOHEXANE	0.075
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.048
3-METHYLHEXANE	0.026
TOLUENE	0.042
CHLOROBENZENE	0.200

SAMPLE EG-A007-227-10:45-2

COMPOUND NAME	AMOUNT ug/m^3
2-BUTYNE	0.093
PENTANE	0.630
2-METHYL-1,3-BUTADIENE	1.201
2-METHYL-2-BUTENE	0.091
2,2-DIMETHYLBUTANE	0.154
CYCLOPENTANE	0.048
2,3-DIMETHYLBUTANE	0.080
2-METHYLPENTANE	0.318
3-METHYLPENTANE	0.201
HEXANE	0.243
METHYLCYCLOPENTANE	0.099
2,4-DIMETHYLPENTANE	0.205
BENZENE	0.228
CYCLOHEXANE	0.113
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.070
3-METHYLHEXANE	0.032
CHLOROBENZENE	0.183

DUB0:[MIDDLETON]EG228X2.PRN;2 28-SEP-1989
15:18 Page 1

SAMPLE EG-A055-228-16:00-2

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.076
2-METHYL-1,3-BUTADIENE	1.519
2-METHYL-2-BUTENE	0.034
2,2-DIMETHYLBUTANE	0.093
2-METHYLPENTANE	0.036
HEXANE	0.032
2,4-DIMETHYLPENTANE	0.146
BENZENE	0.138
2,4,4-TRIMETHYL-2-PENTENE	0.089
TOLUENE	0.043
CHLOROBENZENE	0.155
p- AND m-XYLENE	0.033

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 DUB0:[MIDDLETON]EG228X1.PRN;2                                          28-SEP-1989
15:18                                       Page 1

              SAMPLE EG-A073-228-08:55-1

                                          COMPOUND NAME     AMOUNT
                                                            ug/m^3

                                                PENTANE      0.088
                               2-METHYL-1,3-BUTADIENE        1.944
                                  2,2-DIMETHYLBUTANE         0.105
                                                 HEXANE      0.046
                                 2,4-DIMETHYLPENTANE         0.159
                                                BENZENE      0.129
                         c-1,3-DIMETHYLCYCLOHEXANE           0.032
                                          CHLOROBENZENE      0.794
```

SAMPLE EG-A051-232-16:25-2

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.87
2-METHYL-1,3-BUTADIENE	2.08
2-METHYL-2-BUTENE	0.26
2,2-DIMETHYLBUTANE	0.77
2-METHYLPENTANE	0.29
3-METHYLPENTANE	0.49
2,4-DIMETHYLPENTANE	0.73
BENZENE	0.99
2,4,4-TRIMETHYL-2-PENTENE	0.55
TOLUENE	0.36
CHLOROBENZENE	3.63

SAMPLE EG-A005-228-21:10-3 3rd REPEAT DUE TO HIGH

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.203
2-METHYL-1,3-BUTADIENE	1.992
2,2-DIMETHYLBUTANE	0.128
2-METHYLPENTANE	0.135
3-METHYLPENTANE	0.171
HEXANE	0.102
2,4-DIMETHYLPENTANE	0.105
BENZENE	0.106
3-METHYLHEXANE	0.074
TOLUENE	0.068
c-1,3-DIMETHYLCYCLOHEXANE	0.047
1,1-DIMETHYLCYCLOHEXANE	0.076
TETRACHLOROETHENE	0.242
CHLOROBENZENE	1.036

SAMPLE EG-A028-234-08:35-1

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.132
2-METHYL-1,3-BUTADIENE	2.217
2-METHYL-2-BUTENE	0.039
2,2-DIMETHYLBUTANE	0.080
4-METHYL-1-PENTENE	0.018
2,3-DIMETHYLBUTANE	0.019
2-METHYLPENTANE	0.091
3-METHYLPENTANE	0.101
1-HEXENE	0.017
HEXANE	0.073
TRICHLOROMETHANE	0.113
METHYLCYCLOPENTANE	0.025
2,4-DIMETHYLPENTANE	0.178
BENZENE	0.162
CYCLOHEXANE	0.020
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.043
3-METHYLHEXANE	0.030
2,2,4-TRIMETHYLPENTANE	0.028
HEPTANE	0.024
2,4,4-TRIMETHYL-2-PENTENE	0.071
TOLUENE	0.114
CHLOROBENZENE	0.243

SAMPLE EG-A099-233-21:55-3

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.336
1-PENTENE	0.042
2-BUTYNE	0.070
PENTANE	0.178
2-METHYL-1,3-BUTADIENE	0.662
2-METHYL-2-BUTENE	0.043
2,2-DIMETHYLBUTANE	0.088
4-METHYL-1-PENTENE	0.077
2,3-DIMETHYLBUTANE	0.027
2-METHYLPENTANE	0.126
3-METHYLPENTANE	0.132
1-HEXENE	0.037
HEXANE	0.104
CIS-2-HEXENE	0.034
METHYLCYCLOPENTANE	0.036
2,4-DIMETHYLPENTANE	0.196
1,1,1-TRICHLOROETHANE	0.351
BENZENE	0.250
TETRACHLOROMETHANE	0.242
CYCLOHEXANE	0.049
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.064
3-METHYLHEXANE	0.078
2,2,4-TRIMETHYLPENTANE	0.046
HEPTANE	0.043
TOLUENE	0.217
1-OCTENE	0.028
TETRACHLOROETHENE	0.094
OCTANE	0.024
CHLOROBENZENE	0.647

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  DUB0:[MIDDLETON]EG235X2.PRN;1                                       28-SEP-1989
15:19                                 Page 1

              SAMPLE DO-A039-235-08:00-2

                                           COMPOUND NAME    AMOUNT
                                                            ug/m^3

                                     2-METHYL-1-BUTENE       0.021
                                               PENTANE       0.215
                                2-METHYL-1,3-BUTADIENE       0.203
                                      TRANS-2-PENTENE        0.030
                                     2-METHYL-2-BUTENE       0.072
                                    2,2-DIMETHYLBUTANE       0.086
                                    4-METHYL-1-PENTENE       0.071
                                          CYCLOPENTANE       0.025
                                    2,3-DIMETHYLBUTANE       0.029
                                       2-METHYLPENTANE       0.138
                              TRANS-4-METHYL-1-PENTENE       0.025
                                       3-METHYLPENTANE       0.131
                                                HEXANE       0.100
                                     TRICHLOROMETHANE        0.093
                                          CIS-2-HEXENE       0.018
                                    METHYLCYCLOPENTANE       0.042
                                   2,4-DIMETHYLPENTANE       0.185
                                               BENZENE       0.173
                 2,3-DIMETHYLPENTANE/2-METHYLHEXANE          0.057
                                        3-METHYLHEXANE       0.042
                                2,2,4-TRIMETHYLPENTANE       0.044
                                               HEPTANE       0.031
                                     2,2-DIMETHYLHEXANE      0.025
                             2,4,4-TRIMETHYL-2-PENTENE       0.025
                                2,3,4-TRIMETHYLPENTANE       0.015
                                               TOLUENE       0.290
                                   1-METHYLCYCLOHEXENE       0.024
                                       2-METHYLHEPTANE       0.018
                                       3-METHYLHEPTANE       0.021
                               1,1-DIMETHYLCYCLOHEXANE       0.017
                                     TETRACHLOROETHENE       0.086
                                                OCTANE       0.026
                                          ETHYLBENZENE       0.035
                                       p- AND m-XYLENE       0.090
                                              o-XYLENE       0.039
                                                NONANE       0.015
                                              a-PINENE       0.059
                                              b-PINENE       0.016
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SAMPLE EG-A012-234-16:05-2

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.158
1-PENTENE	0.020
2-METHYL-1-BUTENE	0.035
PENTANE	0.216
2-METHYL-1,3-BUTADIENE	0.811
2-METHYL-2-BUTENE	0.112
2,2-DIMETHYLBUTANE	0.113
4-METHYL-1-PENTENE	0.114
CYCLOPENTANE	0.023
2,3-DIMETHYLBUTANE	0.035
2-METHYLPENTANE	0.162
3-METHYLPENTANE	0.195
HEXANE	0.101
2-METHYL-2-PENTENE	0.085
METHYLCYCLOPENTANE	0.034
2,4-DIMETHYLPENTANE	0.174
1,1,1-TRICHLOROETHANE	0.374
BENZENE	0.180
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.080
3-METHYLHEXANE	0.135
2,2,4-TRIMETHYLPENTANE	0.081
HEPTANE	0.088
2,2-DIMETHYLHEXANE	0.046
2,4,4-TRIMETHYL-2-PENTENE	0.037
2,5-DIMETHYLHEXANE	0.019
2,3,4-TRIMETHYLPENTANE	0.026
TOLUENE	0.845
2-METHYLHEPTANE	0.038
3-METHYLHEPTANE	0.049
TETRACHLOROETHENE	0.129
OCTANE	0.035
CHLOROBENZENE	0.417
ETHYLBENZENE	0.054
p- AND m-XYLENE	0.111
o-XYLENE	0.048
NONANE	0.017
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.044
DECANE	0.026

SAMPLE EG-A224-236-13:20-2

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	0.594
1-PENTENE	0.144
2-BUTYNE	0.065
2-METHYL-1-BUTENE	0.160
PENTANE	0.662
2-METHYL-1,3-BUTADIENE	0.829
TRANS-2-PENTENE	0.068
CIS-2-PENTENE	0.037
DICHLOROMETHANE	0.529
2,2-DIMETHYLBUTANE	0.125
CYCLOPENTENE	0.041
4-METHYL-1-PENTENE	0.243
CYCLOPENTANE	0.074
2,3-DIMETHYLBUTANE	0.078
2-METHYLPENTANE	0.728
TRANS-4-METHYL-1-PENTENE	0.721
3-METHYLPENTANE	0.371
2-METHYL-1-PENTENE	0.034
1-HEXENE	0.088
HEXANE	0.363
TRICHLOROMETHANE	0.261
TRANS-2-HEXENE	0.027
CIS-2-HEXENE	0.093
METHYLCYCLOPENTANE	0.129
2,4-DIMETHYLPENTANE	0.307
1,1,1-TRICHLOROETHANE	0.498
BENZENE	0.517
TETRACHLOROMETHANE	1.805
CYCLOHEXANE	0.041
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.366
1,2-DICHLOROPROPANE	0.042
3-METHYLHEXANE	0.351
TRICHLOROETHENE	0.085
2,2,4-TRIMETHYLPENTANE	0.260
HEPTANE	0.148
2,4,4-TRIMETHYL-1-PENTENE	0.035
METHYLCYCLOHEXANE	0.019
2,2-DIMETHYLHEXANE	0.069
2,5-DIMETHYLHEXANE	0.033
2,3,4-TRIMETHYLPENTANE	0.069
TOLUENE	0.871
1-METHYLCYCLOHEXENE	0.058
2-METHYLHEPTANE	0.073
4-METHYLHEPTANE	0.071
3-METHYLHEPTANE	0.089
c-1,3-DIMETHYLCYCLOHEXANE	0.162
2,2,5-TRIMETHYLHEXANE	0.021
1,1-DIMETHYLCYCLOHEXANE	0.074
1-OCTENE	0.066
TETRACHLOROETHENE	0.527

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SAMPLE EG-A031-236-08:25-1

                             COMPOUND NAME   AMOUNT
                                             ug/m^3

                                    BUTANE
                                 1-PENTENE    0.049
                         2-METHYL-1-BUTENE    0.044
                                   PENTANE    0.586
                   2-METHYL-1,3-BUTADIENE    0.052
                          TRANS-2-PENTENE    0.048
                            CIS-2-PENTENE    0.022
                        2-METHYL-2-BUTENE    0.365
                       2,2-DIMETHYLBUTANE    0.152
                       4-METHYL-1-PENTENE    0.095
                             CYCLOPENTANE    0.063
                       2,3-DIMETHYLBUTANE    0.084
                           2-METHYLPENTANE    0.427
                           3-METHYLPENTANE    0.316
                                  1-HEXENE    0.043
                                    HEXANE    0.355
                           TRICHLOROMETHANE    0.143
                               CIS-2-HEXENE    0.029
                        METHYLCYCLOPENTANE    0.155
                     2,4-DIMETHYLPENTANE    0.253
                                    BENZENE    0.378
                                CYCLOHEXANE    0.133
   2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.247
                              3-METHYLHEXANE    0.199
                           TRICHLOROETHENE    0.089
                    2,2,4-TRIMETHYLPENTANE    0.151
                                    HEPTANE    0.114
                         2,2-DIMETHYLHEXANE    0.067
                2,4,4-TRIMETHYL-2-PENTENE    0.039
                         2,5-DIMETHYLHEXANE    0.034
                    2,3,4-TRIMETHYLPENTANE    0.051
                                    TOLUENE    0.867
                             2-METHYLHEPTANE    0.052
                             3-METHYLHEPTANE    0.066
                     2,2,5-TRIMETHYLHEXANE    0.015
                  1,1-DIMETHYLCYCLOHEXANE    0.062
                         TETRACHLOROETHENE    0.266
                                     OCTANE    0.061
                           ETHYLCYCLOHEXANE    0.020
                               ETHYLBENZENE    0.097
                          p- AND m-XYLENE    0.170
                                   o-XYLENE    0.034
                                   a-PINENE    0.017
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                  OCTANE    0.098
          TRANS-2-OCTENE    0.025
           CHLOROBENZENE    0.021
        ETHYLCYCLOHEXANE    0.046
            ETHYLBENZENE    0.168
       p- AND m-XYLENE      0.328
                 STYRENE    0.582
                o-XYLENE    0.170
                  NONANE    0.074
                a-PINENE    0.243
           PROPYLBENZENE    0.038
          3-ETHYLTOLUENE    0.038
  1,3,5-TRIMETHYLBENZENE    0.024
                b-PINENE    0.030
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SAMPLE EG-A077-236-21:55-3

                        COMPOUND NAME   AMOUNT
                                        ug/m^3

                               BUTANE
                            1-PENTENE    0.042
                   2-METHYL-1-BUTENE    0.051
                              PENTANE    0.939
               2-METHYL-1,3-BUTADIENE    0.161
                   2-METHYL-2-BUTENE    0.132
                   2,2-DIMETHYLBUTANE    0.200
                         CYCLOPENTANE    0.073
                   2,3-DIMETHYLBUTANE    0.138
                      2-METHYLPENTANE    0.630
                      3-METHYLPENTANE    0.373
                             1-HEXENE    0.038
                               HEXANE    0.447
                   METHYLCYCLOPENTANE    0.184
                  2,4-DIMETHYLPENTANE    0.369
                              BENZENE    0.740
                          CYCLOHEXANE    0.105
  2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.298
                       3-METHYLHEXANE    0.207
                     TRICHLOROETHENE    0.124
               2,2,4-TRIMETHYLPENTANE    0.274
                              HEPTANE    0.162
                   2,2-DIMETHYLHEXANE    0.100
            2,4,4-TRIMETHYL-2-PENTENE    0.018
                   2,5-DIMETHYLHEXANE    0.045
               2,3,4-TRIMETHYLPENTANE    0.078
                              TOLUENE    1.382
                 1-METHYLCYCLOHEXENE    0.043
                      2-METHYLHEPTANE    0.064
                      3-METHYLHEPTANE    0.108
                2,2,5-TRIMETHYLHEXANE    0.026
             1,1-DIMETHYLCYCLOHEXANE    0.028
                    TETRACHLOROETHENE    0.270
                               OCTANE    0.098
                        CHLOROBENZENE    0.629
                         ETHYLBENZENE    0.113
                     p- AND m-XYLENE    0.175
                              STYRENE    0.027
                             o-XYLENE    0.046
                             a-PINENE    0.023
```

SAMPLE EG-A089-237-16:05-2

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	1.765
1-PENTENE	0.020
2-METHYL-1-BUTENE	0.025
PENTANE	0.568
2-METHYL-1,3-BUTADIENE	0.413
2-METHYL-2-BUTENE	0.126
2,2-DIMETHYLBUTANE	0.147
4-METHYL-1-PENTENE	0.227
CYCLOPENTANE	0.050
2,3-DIMETHYLBUTANE	0.065
2-METHYLPENTANE	0.247
3-METHYLPENTANE	0.291
HEXANE	0.242
TRICHLOROMETHANE	0.105
CIS-2-HEXENE	0.089
METHYLCYCLOPENTANE	0.072
2,4-DIMETHYLPENTANE	0.242
1,1,1-TRICHLOROETHANE	0.239
BENZENE	0.517
TETRACHLOROMETHANE	0.561
CYCLOHEXANE	0.051
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.178
1,2-DICHLOROPROPANE	0.048
3-METHYLHEXANE	0.133
2,2,4-TRIMETHYLPENTANE	0.168
HEPTANE	0.101
2,2-DIMETHYLHEXANE	0.052
2,5-DIMETHYLHEXANE	0.031
2,3,4-TRIMETHYLPENTANE	0.031
TOLUENE	0.987
1-METHYLCYCLOHEXENE	0.059
2-METHYLHEPTANE	0.043
3-METHYLHEPTANE	0.053
1-OCTENE	0.030
TETRACHLOROETHENE	0.214
OCTANE	0.047
TRANS-2-OCTENE	0.029
CHLOROBENZENE	0.584
ETHYLBENZENE	0.135
p- AND m-XYLENE	0.153
o-XYLENE	0.045
a-PINENE	0.028

SAMPLE EG-A038-237-21:20-3

COMPOUND NAME	AMOUNT ug/m^3
BUTANE	
1-PENTENE	0.022
2-METHYL-1-BUTENE	0.059
PENTANE	0.679
2-METHYL-1,3-BUTADIENE	0.921
TRANS-2-PENTENE	0.036
2-METHYL-2-BUTENE	0.091
2,2-DIMETHYLBUTANE	0.166
4-METHYL-1-PENTENE	0.113
CYCLOPENTANE	0.068
2,3-DIMETHYLBUTANE	0.115
2-METHYLPENTANE	0.651
3-METHYLPENTANE	0.483
1-HEXENE	0.040
HEXANE	0.494
CIS-2-HEXENE	0.061
METHYLCYCLOPENTANE	0.153
2,4-DIMETHYLPENTANE	0.308
1,1,1-TRICHLOROETHANE	0.253
BENZENE	0.663
CYCLOHEXANE	0.093
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.340
3-METHYLHEXANE	0.320
TRICHLOROETHENE	0.108
2,2,4-TRIMETHYLPENTANE	0.221
HEPTANE	0.148
METHYLCYCLOHEXANE	0.030
2,2-DIMETHYLHEXANE	0.055
2,5-DIMETHYLHEXANE	0.037
2,3,4-TRIMETHYLPENTANE	0.051
TOLUENE	1.072
1-METHYLCYCLOHEXENE	0.048
2-METHYLHEPTANE	0.053
3-METHYLHEPTANE	0.065
c-1,3-DIMETHYLCYCLOHEXANE	0.027
2,2,5-TRIMETHYLHEXANE	0.012
TETRACHLOROETHENE	0.193
OCTANE	0.054
CHLOROBENZENE	0.508
ETHYLBENZENE	0.140
p- AND m-XYLENE	0.279
STYRENE	0.064
o-XYLENE	0.114
NONANE	0.021
a-PINENE	0.170
b-PINENE	0.019

SAMPLE EG-A007-238-08:10-1

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
CHLOROETHANE	0.048
2-METHYLBUTANE	0.504
1-PENTENE	0.046
2-BUTYNE	0.088
2-METHYL-1-BUTENE	0.047
PENTANE	0.491
2-METHYL-1,3-BUTADIENE	0.172
TRANS-2-PENTENE	0.044
CIS-2-PENTENE	0.023
2-METHYL-2-BUTENE	0.082
2,2-DIMETHYLBUTANE	0.102
CYCLOPENTENE	0.020
4-METHYL-1-PENTENE	0.178
CYCLOPENTANE	0.057
2,3-DIMETHYLBUTANE	0.067
2-METHYLPENTANE	0.530
3-METHYLPENTANE	0.314
1-HEXENE	0.049
HEXANE	0.313
TRICHLOROMETHANE	0.164
TRANS-2-HEXENE	0.015
2-METHYL-2-PENTENE	0.191
CIS-2-HEXENE	0.082
METHYLCYCLOPENTANE	0.108
2,4-DIMETHYLPENTANE	0.224
1,1,1-TRICHLOROETHANE	0.492
BENZENE	0.841
TETRACHLOROMETHANE	0.547
CYCLOHEXANE	0.052
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.271
3-METHYLHEXANE	0.279
TRICHLOROETHENE	0.105
2,2,4-TRIMETHYLPENTANE	0.132
HEPTANE	0.163
METHYLCYCLOHEXANE	0.044
2,2-DIMETHYLHEXANE	0.072
2,4,4-TRIMETHYL-2-PENTENE	0.061
2,5-DIMETHYLHEXANE	0.034
2,3,4-TRIMETHYLPENTANE	0.032
TOLUENE	1.929
2-METHYLHEPTANE	0.054
3-METHYLHEPTANE	0.066
1-OCTENE	0.036
TETRACHLOROETHENE	0.103
OCTANE	0.069
CHLOROBENZENE	0.408
ETHYLBENZENE	1.738
p- AND m-XYLENE	4.932
STYRENE	0.066
o-XYLENE	1.112

NONANE	0.062
a-PINENE	0.282
PROPYLBENZENE	0.026
3-ETHYLTOLUENE	0.022

SAMPLE EG-A063-238-16:05-2

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.181
2-METHYL-1,3-BUTADIENE	2.276
2-METHYL-2-BUTENE	0.046
2,2-DIMETHYLBUTANE	0.081
4-METHYL-1-PENTENE	0.148
2,3-DIMETHYLBUTANE	0.019
2-METHYLPENTANE	0.080
3-METHYLPENTANE	0.139
1-HEXENE	0.027
HEXANE	0.085
TRICHLOROMETHANE	0.118
CIS-2-HEXENE	0.032
METHYLCYCLOPENTANE	0.024
2,4-DIMETHYLPENTANE	0.185
BENZENE	0.331
CYCLOHEXANE	0.047
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.044
3-METHYLHEXANE	0.034
2,2,4-TRIMETHYLPENTANE	0.030
HEPTANE	0.033
2,2-DIMETHYLHEXANE	0.017
2,4,4-TRIMETHYL-2-PENTENE	0.043
TOLUENE	0.201
1-METHYLCYCLOHEXENE	0.021
1,1-DIMETHYLCYCLOHEXANE	0.030
TETRACHLOROETHENE	0.127
OCTANE	0.018
CHLOROBENZENE	0.359
ETHYLBENZENE	0.023
p- AND m-XYLENE	0.029
o-XYLENE	0.012
a-PINENE	0.104

SAMPLE EG-A059-239-16:20-2

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.680
1-PENTENE	0.021
2-BUTYNE	0.033
PENTANE	0.114
2-METHYL-1,3-BUTADIENE	1.479
2-METHYL-2-BUTENE	0.049
2,2-DIMETHYLBUTANE	0.092
4-METHYL-1-PENTENE	0.188
2-METHYLPENTANE	0.050
3-METHYLPENTANE	0.172
1-HEXENE	0.051
HEXANE	0.077
TRICHLOROMETHANE	0.154
METHYLCYCLOPENTANE	0.021
2,4-DIMETHYLPENTANE	0.202
1,1,1-TRICHLOROETHANE	0.565
BENZENE	0.288
TETRACHLOROMETHANE	0.196
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.037
3-METHYLHEXANE	0.384
3-HEPTENE	0.054
HEPTANE	0.043
2,4,4-TRIMETHYL-2-PENTENE	0.029
TOLUENE	0.254
2-METHYLHEPTANE	0.019
4-METHYLHEPTANE	0.053
3-METHYLHEPTANE	0.030
c-1,3-DIMETHYLCYCLOHEXANE	0.259
1,1-DIMETHYLCYCLOHEXANE	0.736
1-OCTENE	0.163
TETRACHLOROETHENE	2.666
TRANS-2-OCTENE	0.065
CHLOROBENZENE	9.670
ETHYLBENZENE	0.152
p- AND m-XYLENE	0.088
STYRENE	0.033
o-XYLENE	0.111
NONANE	0.017
a-PINENE	0.094

SAMPLE EG-A023-240-08:40-1

COMPOUND NAME	AMOUNT ug/m^3
BUTANE	
2-METHYLBUTANE	0.040
1-PENTENE	0.154
2-METHYL-1-BUTENE	0.236
PENTANE	2.580
2-METHYL-1,3-BUTADIENE	0.259
TRANS-2-PENTENE	0.200
CIS-2-PENTENE	0.103
2-METHYL-2-BUTENE	0.453
2,2-DIMETHYLBUTANE	0.320
CYCLOPENTENE	0.035
4-METHYL-1-PENTENE	0.109
CYCLOPENTANE	0.244
2,3-DIMETHYLBUTANE	0.375
2-METHYLPENTANE	1.734
3-METHYLPENTANE	1.128
2-METHYL-1-PENTENE	0.035
1-HEXENE	0.069
HEXANE	1.199
TRICHLOROMETHANE	0.324
TRANS-2-HEXENE	0.047
2-METHYL-2-PENTENE	0.114
CIS-2-HEXENE	0.057
CIS-3-METHYL-2-PENTENE	0.021
METHYLCYCLOPENTANE	0.527
2,4-DIMETHYLPENTANE	0.679
BENZENE	1.364
CYCLOHEXANE	0.154
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.810
3-METHYLHEXANE	0.549
TRICHLOROETHENE	0.377
2,2,4-TRIMETHYLPENTANE	0.981
HEPTANE	0.474
2,2-DIMETHYLHEXANE	0.419
2,4,4-TRIMETHYL-2-PENTENE	0.038
2,5-DIMETHYLHEXANE	0.136
2,3,4-TRIMETHYLPENTANE	0.220
TOLUENE	5.162
1-METHYLCYCLOHEXENE	0.167
2-METHYLHEPTANE	0.347
3-METHYLHEPTANE	0.470
2,2,5-TRIMETHYLHEXANE	0.087
1,1-DIMETHYLCYCLOHEXANE	0.045
1-OCTENE	0.086
TETRACHLOROETHENE	0.404
OCTANE	0.481
c-1,2-DIMETHYLCYCLOHEXANE	0.073
ETHYLCYCLOHEXANE	0.218
ETHYLBENZENE	0.649
p- AND m-XYLENE	1.727
STYRENE	0.316

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                                       o-XYLENE     0.641
                                         NONANE     0.197
                               ISOPROPYLBENZENE     0.026
                                       a-PINENE     0.234
                                3-CHLOROTOLUENE     0.070
                                  PROPYLBENZENE     0.149
                                 3-ETHYLTOLUENE     0.163
                                 4-ETHYLTOLUENE     0.075
                         1,3,5-TRIMETHYLBENZENE     0.055
                                       b-PINENE     0.043
 1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE           0.037
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SAMPLE EG-A022-240-16:35-2

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	0.818
PENTANE	0.303
2-METHYL-1,3-BUTADIENE	0.087
DICHLOROMETHANE	0.189
2,2-DIMETHYLBUTANE	0.058
4-METHYL-1-PENTENE	0.066
CYCLOPENTANE	0.025
2,3-DIMETHYLBUTANE	0.034
2-METHYLPENTANE	0.272
3-METHYLPENTANE	0.194
HEXANE	0.147
CIS-2-HEXENE	0.028
METHYLCYCLOPENTANE	0.058
2,4-DIMETHYLPENTANE	0.130
1,1,1-TRICHLOROETHANE	0.187
BENZENE	0.361
CYCLOHEXANE	0.040
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.159
3-METHYLHEXANE	0.210
TRICHLOROETHENE	0.086
2,2,4-TRIMETHYLPENTANE	0.103
HEPTANE	0.072
2,2-DIMETHYLHEXANE	0.068
2,4,4-TRIMETHYL-2-PENTENE	0.026
2,5-DIMETHYLHEXANE	0.022
2,3,4-TRIMETHYLPENTANE	0.020
TOLUENE	0.641
1-METHYLCYCLOHEXENE	0.027
2-METHYLHEPTANE	0.074
3-METHYLHEPTANE	0.051
c-1,3-DIMETHYLCYCLOHEXANE	0.082
TETRACHLOROETHENE	0.192
OCTANE	0.062
ETHYLBENZENE	0.127
p- AND m-XYLENE	0.178
STYRENE	0.018
o-XYLENE	0.101
NONANE	0.046
a-PINENE	0.058
3-CHLOROTOLUENE	0.022
PROPYLBENZENE	0.048
3-ETHYLTOLUENE	0.031
4-ETHYLTOLUENE	0.023
1,3,5-TRIMETHYLBENZENE	0.020
b-PINENE	0.019
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.057
DECANE	0.011

SAMPLE EG-A072-240-21:55-3

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.037
2-METHYL-1-BUTENE	0.966
PENTANE	0.157
2-METHYL-2-BUTENE	0.181
2,2-DIMETHYLBUTANE	0.105
4-METHYL-1-PENTENE	0.094
CYCLOPENTANE	0.140
2,3-DIMETHYLBUTANE	0.621
2-METHYLBUTANE	0.490
3-METHYLPENTANE	0.059
1-HEXENE	0.439
HEXANE	0.028
CIS-2-HEXENE	0.189
METHYLCYCLOPENTANE	0.249
2,4-DIMETHYLPENTANE	0.792
BENZENE	0.135
CYCLOHEXANE	0.298
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.213
3-METHYLHEXANE	0.130
TRICHLOROETHENE	0.294
2,2,4-TRIMETHYLPENTANE	0.143
HEPTANE	0.098
2,2-DIMETHYLHEXANE	0.042
2,5-DIMETHYLHEXANE	0.076
2,3,4-TRIMETHYLPENTANE	1.024
TOLUENE	0.043
1-METHYLCYCLOHEXENE	0.068
2-METHYLHEPTANE	0.092
3-METHYLHEPTANE	0.024
2,2,5-TRIMETHYLHEXANE	0.198
TETRACHLOROETHENE	0.070
OCTANE	0.025
ETHYLCYCLOHEXANE	0.089
ETHYLBENZENE	0.148
p- AND m-XYLENE	0.045
o-XYLENE	0.000

SAMPLE EG-A020-241-21:09-3

COMPOUND NAME	AMOUNT ug/m^3
1-PENTENE	0.025
2-BUTYNE	0.039
2-METHYL-1-BUTENE	0.023
PENTANE	0.143
2-METHYL-1,3-BUTADIENE	0.734
2-METHYL-2-BUTENE	0.039
2,2-DIMETHYLBUTANE	0.079
4-METHYL-1-PENTENE	0.217
2,3-DIMETHYLBUTANE	0.026
2-METHYLPENTANE	0.312
3-METHYLPENTANE	0.195
1-HEXENE	0.058
HEXANE	0.081
TRICHLOROMETHANE	0.198
CIS-2-HEXENE	0.040
METHYLCYCLOPENTANE	0.037
2,4-DIMETHYLPENTANE	0.206
1,1,1-TRICHLOROETHANE	0.656
BENZENE	0.240
TETRACHLOROMETHANE	0.633
CYCLOHEXANE	0.072
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.174
3-METHYLHEXANE	0.462
2,2,4-TRIMETHYLPENTANE	0.066
HEPTANE	0.023
2,4,4-TRIMETHYL-2-PENTENE	0.058
TOLUENE	0.197
2-METHYLHEPTANE	0.017
4-METHYLHEPTANE	0.028
c-1,3-DIMETHYLCYCLOHEXANE	0.089
1,1-DIMETHYLCYCLOHEXANE	0.378
1-OCTENE	0.103
TETRACHLOROETHENE	1.433
TRANS-2-OCTENE	0.038
CHLOROBENZENE	1.635

SAMPLE EG-A050-242-08:05-1

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	2.368
1-PENTENE	0.084
2-METHYL-1-BUTENE	0.112
PENTANE	1.024
2-METHYL-1,3-BUTADIENE	0.150
TRANS-2-PENTENE	0.078
CIS-2-PENTENE	0.043
2-METHYL-2-BUTENE	0.127
2,2-DIMETHYLBUTANE	0.148
CYCLOPENTENE	0.035
4-METHYL-1-PENTENE	0.046
CYCLOPENTANE	0.114
2,3-DIMETHYLBUTANE	0.146
2-METHYLPENTANE	0.601
TRANS-4-METHYL-1-PENTENE	0.025
3-METHYLPENTANE	0.451
1-HEXENE	0.053
HEXANE	0.308
TRANS-2-HEXENE	0.014
METHYLCYCLOPENTANE	0.159
2,4-DIMETHYLPENTANE	0.223
1,1,1-TRICHLOROETHANE	0.237
BENZENE	0.273
TETRACHLOROMETHANE	0.478
CYCLOHEXANE	0.046
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.156
3-METHYLHEXANE	0.227
TRICHLOROETHENE	0.104
2,2,4-TRIMETHYLPENTANE	0.119
HEPTANE	0.064
2,2-DIMETHYLHEXANE	0.042
2,5-DIMETHYLHEXANE	0.021
2,3,4-TRIMETHYLPENTANE	0.040
TOLUENE	0.494
2-METHYLHEPTANE	0.031
3-METHYLHEPTANE	0.042
c-1,3-DIMETHYLCYCLOHEXANE	0.083
2,2,5-TRIMETHYLHEXANE	0.012
1,1-DIMETHYLCYCLOHEXANE	0.060
TETRACHLOROETHENE	0.195
OCTANE	0.034
CHLOROBENZENE	2.406
ETHYLBENZENE	0.149
p- AND m-XYLENE	0.398
STYRENE	0.020
o-XYLENE	0.126
a-PINENE	0.104

DUB0:[MIDDLETON]EG243X2.PRN;1 28-SEP-1989
15:21 Page 1

SAMPLE EG-A087-243-16:00-2

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	0.054
PENTANE	0.039
2-METHYL-1,3-BUTADIENE	0.281
TRANS-2-PENTENE	0.039
2,2-DIMETHYLBUTANE	0.033
4-METHYL-1-PENTENE	0.135
2-METHYLPENTANE	0.015
3-METHYLPENTANE	0.092
HEXANE	0.020
CIS-2-HEXENE	0.024
2,4-DIMETHYLPENTANE	0.082
1,1,1-TRICHLOROETHANE	0.324
BENZENE	0.084
CYCLOHEXANE	0.022
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.089
3-METHYLHEXANE	0.201
3-HEPTENE	0.024
2,2-DIMETHYLHEXANE	0.012
TOLUENE	0.098
4-METHYLHEPTANE	0.023
c-1,3-DIMETHYLCYCLOHEXANE	0.151
1,1-DIMETHYLCYCLOHEXANE	0.055
TETRACHLOROETHENE	0.215
CHLOROBENZENE	0.368
ETHYLBENZENE	0.020
p- AND m-XYLENE	0.053
STYRENE	0.032
o-XYLENE	0.018
a-PINENE	0.051

```
SAMPLE EG-A016-243-21:21-5?

                          COMPOUND NAME   AMOUNT
                                          ug/m^3

                                PENTANE    0.171
               2-METHYL-1,3-BUTADIENE    0.568
                    2-METHYL-2-BUTENE    0.036
                   2,2-DIMETHYLBUTANE    0.084
                   4-METHYL-1-PENTENE    0.077
                      2-METHYLPENTANE    0.106
                      3-METHYLPENTANE    0.175
                                 HEXANE    0.074
                  METHYLCYCLOPENTANE    0.029
                 2,4-DIMETHYLPENTANE    0.150
              1,1,1-TRICHLOROETHANE    0.167
                                BENZENE    0.182
                            CYCLOHEXANE    0.047
2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.046
                       3-METHYLHEXANE    0.107
                                HEPTANE    0.030
                                TOLUENE    0.151
            1,1-DIMETHYLCYCLOHEXANE    0.106
                  TETRACHLOROETHENE    0.432
                          CHLOROBENZENE    1.782
                           ETHYLBENZENE    0.025
                      p- AND m-XYLENE    0.039
```

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                SAMPLE EG-A013-244-08:20-2

                                   COMPOUND NAME   AMOUNT


                                       1-PENTENE    0.055
                              2-METHYL-1-BUTENE    0.046
                                         PENTANE    0.307
                          2-METHYL-1,3-BUTADIENE    0.098
                                  TRANS-2-PENTENE    0.082
                              2-METHYL-2-BUTENE    0.051
                              2,2-DIMETHYLBUTANE    0.095
                             4-METHYL-1-PENTENE    0.134
                                    CYCLOPENTANE    0.041
                             2,3-DIMETHYLBUTANE    0.051
                                2-METHYLPENTANE    0.214
                                3-METHYLPENTANE    0.255
                                        1-HEXENE    0.032
                                          HEXANE    0.157
                              METHYLCYCLOPENTANE    0.066
                            2,4-DIMETHYLPENTANE    0.189
                          1,1,1-TRICHLOROETHANE    0.383
                                         BENZENE    0.213
                              TETRACHLOROMETHANE    0.187
            2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.179
                                  3-METHYLHEXANE    0.337
                         2,2,4-TRIMETHYLPENTANE    0.060
                                         HEPTANE    0.045
                              2,2-DIMETHYLHEXANE    0.032
                         2,3,4-TRIMETHYLPENTANE    0.045
                                         TOLUENE    0.736
                                 2-METHYLHEPTANE    0.021
                                 4-METHYLHEPTANE    0.035
                                 3-METHYLHEPTANE    0.013
                      c-1,3-DIMETHYLCYCLOHEXANE    0.171
                       1,1-DIMETHYLCYCLOHEXANE    0.539
                                        1-OCTENE    0.116
                               TETRACHLOROETHENE    1.965
                                  TRANS-2-OCTENE    0.044
                                   CHLOROBENZENE    4.536
                                    ETHYLBENZENE    0.241
                                p- AND m-XYLENE    0.536
                                        o-XYLENE    0.133
                                        a-PINENE    0.078
```

APPENDIX 3

SAMPLE DC-A064-205-15:50-1 2.5Kft NEAR EGBERT

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.710
PENTANE	0.340
2-METHYL-1,3-BUTADIENE	1.491
DICHLOROMETHANE	0.366
2,2-DIMETHYLBUTANE	0.111
4-METHYL-1-PENTENE	0.106
2,3-DIMETHYLBUTANE	0.036
2-METHYLPENTANE	0.168
3-METHYLPENTANE	0.190
HEXANE	0.127
METHYLCYCLOPENTANE	0.046
2,4-DIMETHYLPENTANE	0.215
BENZENE	0.305
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.074
3-METHYLHEXANE	0.043
2,2,4-TRIMETHYLPENTANE	0.095
HEPTANE	0.029
2,2-DIMETHYLHEXANE	0.022
TOLUENE	0.026
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.027
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.073

```
SAMPLE DC-A063-205-16:40-2 LOW ALT. OVER DORSET

                     COMPOUND NAME   AMOUNT
                                     ug/m^3

                     1,3-BUTADIENE
                           PENTANE    0.165
         2-METHYL-1,3-BUTADIENE    2.010
              2-METHYL-2-BUTENE    0.075
             2,2-DIMETHYLBUTANE    0.106
                2-METHYLPENTANE    0.076
                3-METHYLPENTANE    0.051
                         HEXANE    0.044
            METHYLCYCLOPENTANE    0.023
           2,4-DIMETHYLPENTANE    0.106
                        BENZENE    0.063
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 DUB0:[MIDDLETON]DC205X3.PRN;1                                  2-OCT-1989
09:22                                 Page 1




              SAMPLE DC-A062-205-17:55-3 3.5Kft/DORSET

                                        COMPOUND NAME   AMOUNT
                                                        ug/m^3

                                       2-METHYLBUTANE    0.328
                                              PENTANE    0.193
                             2-METHYL-1,3-BUTADIENE      2.236
                                   2-METHYL-2-BUTENE     0.053
                                2,2-DIMETHYLBUTANE       0.102
                                   2-METHYLPENTANE       0.093
                                   3-METHYLPENTANE       0.067
                                             HEXANE      0.085
                               2,4-DIMETHYLPENTANE       0.114
                                            BENZENE      0.153
              1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE   0.047
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SAMPLE DC-A061-205-18:40-4 9Kft OVER EGBERT

                            COMPOUND NMAE   AMOUNT

                   2,2-DIMETHYLPROPANE
                     2-METHYL-1-BUTENE     0.123
                               PENTANE     0.059
                       DICHLOROMETHANE     0.700
                    2,2-DIMETHYLBUTANE     0.078
                    4-METHYL-1-PENTENE     0.126
              TRANS-4-METHYL-1-PENTENE     0.025
                        3-METHYLPENTANE     0.126
                                HEXANE     0.025
                   2,4-DIMETHYLPENTANE     0.181
                               BENZENE     0.243
             2,4,4-TRIMETHYL-2-PENTENE     0.071
                               TOLUENE     0.071
             c-1,3-DIMETHYLCYCLOHEXANE     0.029
                               o-XYLENE    0.025
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE   0.031
```

SAMPLE DC-A005-207-13:57-1

COMPOUND NAME	AMOUNT ug/m^3
TRANS-2-BUTENE	
2-METHYLBUTANE	1.103
PENTANE	0.245
2-METHYL-1,3-BUTADIENE	0.953
2,2-DIMETHYLBUTANE	0.129
4-METHYL-1-PENTENE	0.216
2,3-DIMETHYLBUTANE	0.067
2-METHYLPENTANE	0.093
3-METHYLPENTANE	0.161
HEXANE	0.103
2,4-DIMETHYLPENTANE	0.253
BENZENE	0.782
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.067
2,2,4-TRIMETHYLPENTANE	0.571
2,5-DIMETHYLHEXANE	0.053
2,3,4-TRIMETHYLPENTANE	0.101
TOLUENE	0.721
ETHYLBENZENE	0.050
m- AND p-XYLENE	0.122
o-XYLENE	0.054

SAMPLE DC-A006-207-15:03-2

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	1.444
PENTANE	0.695
2-METHYL-1,3-BUTADIENE	1.011
2,2-DIMETHYLBUTANE	0.139
2,3-DIMETHYLBUTANE	0.075
2-METHYLPENTANE	0.328
3-METHYLPENTANE	0.216
HEXANE	0.245
METHYLCYLOPENTANE	0.090
2,4-DIMETHYLPENTANE	0.201
BENZENE	0.730
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.144
3-METHYLHEXANE	0.080
2,2,4-TRIMETHYLPENTANE	0.099
TOLUENE	0.148
1,3,5-TRIMETHYLBENZENE	0.086
DECANE	0.112
UNDECANE	0.268

SAMPLE DC-A071-210-16:45-3 9-10Kft. NEAR EGBERT

COMPOUND NAME	AMOUNT ug/m^3
BUTANE	
2-METHYLBUTANE	0.131
PENTANE	0.075
DICHLOROMETHANE	0.107
2,2-DIMETHYLBUTANE	0.077
2-METHYLPENTANE	0.025
HEXANE	0.028
2,4-DIMETHYLPENTANE	0.159
BENZENE	0.107
2,2,4-TRIMETHYLPENTANE	0.042
TOLUENE	0.084

```
SAMPLE DC-A013-211-15:07-1 2000Ft  NEAR EGBERT

                    COMPOUND NAME   AMOUNT
                                    ug/m^3

                          PENTANE    0.196
          2-METHYL-1,3-BUTADIENE     1.063
               2-METHYL-2-BUTENE     0.061
              2,2-DIMETHYLBUTANE     0.107
              4-METHYL-1-PENTENE     0.119
                 2-METHYLPENTANE     0.080
                 3-METHYLPENTANE     0.092
                          HEXANE     0.045
             2,4-DIMETHYLPENTANE     0.106
                         BENZENE     0.114
2,3-DIMETHYLPENTANE/2-METHYLHEXANE   0.021
          2,2,4-TRIMETHYLPENTANE     0.053
                         TOLUENE     0.116
               TETRACHLOROETHENE     0.079
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SAMPLE DC-A014-211-16:18-2

                 COMPOUND NAME   AMOUNT
                                 ug/m^3

                       PENTANE    0.244
       2-METHYL-1,3-BUTADIENE     0.696
             2-METHYL-2-BUTENE    0.052
           2,2-DIMETHYLBUTANE     0.111
           4-METHYL-1-PENTENE     0.046
              2-METHYLPENTANE     0.078
     TRANS-4-METHYL-1-PENTENE     0.044
              3-METHYLPENTANE     0.051
                        HEXANE    0.038
         2,4-DIMETHYLPENTANE      0.066
                       BENZENE    0.065
                3-METHYLHEXANE    0.040
                       TOLUENE    0.049
```

SAMPLE DC-A015-211-17:10-3

COMPOUND NAME	AMOUNT ug/m^3
2-METHYL-2-BUTENE	0.048
2,2-DIMETHYLBUTANE	0.075
4-METHYL-1-PENTENE	0.098
TRANS-4-METHYL-1-PENTENE	0.050
3-METHYLPENTANE	0.033
2,4-DIMETHYLPENTANE	0.113
1,1,1-TRICHLOROETHANE	0.206
BENZENE	0.091
TOLUENE	0.032
1-OCTENE	0.023
o-XYLENE	0.026
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.056
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.237

SAMPLE DC-A246-212-18:14-1 2000Ft NEAR EGBERT

COMPOUND NAME	AMOUNT ug/m^3
PROPYNE	
BUTANE	
1-BUTYNE	0.063
CHLOROETHANE	0.257
1-PENTENE	0.053
2-METHYL-1-BUTENE	0.050
PENTANE	0.541
2-METHYL-1,3-BUTADIENE	0.964
2-METHYL-2-BUTENE	0.068
2,2-DIMETHYLBUTANE	0.140
CYCLOPENTANE	0.032
2,3-DIMETHYLBUTANE	0.046
2-METHYLPENTANE	0.173
3-METHYLPENTANE	0.102
HEXANE	0.081
METHYLCYCLOPENTANE	0.025
2,4-DIMETHYLPENTANE	0.035
BENZENE	0.037

SAMPLE DC-A270-212-19:04-2 2,000Ft OVER DORSET

COMPOUND NAME	AMOUNT
1-PENTENE	0.035
2-BUTYNE	0.045
PENTANE	0.456
2-METHYL-1,3-BUTADIENE	2.257
2-METHYL-2-BUTENE	0.077
2,2-DIMETHYLBUTANE	0.147
4-METHYL-1-PENTENE	0.256
CYCLOPENTANE	0.058
2,3-DIMETHYLBUTANE	0.058
CIS-4-METHYL-2-PENTENE	0.175
2-METHYLPENTANE	0.433
3-METHYLPENTANE	0.332
1-HEXENE	0.065
HEXANE	0.204
TRICHLOROMETHANE	0.194
METHYLCYCLOPENTANE	0.075
2,4-DIMETHYLPENTANE	0.203
1,1,1-TRICHLOROETHANE	0.362
BENZENE	0.403
TETRACHLOROETHANE	0.569
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.076
3-METHYLHEXANE	0.321
2,2,4-TRIMETHYLPENTANE	0.124
HEPTANE	0.039
TOLUENE	0.157
c-1,3-DIMETHYLCYCLOHEXANE	0.151
1,1-DIMETHYLCYCLOHEXANE	0.056
TETRACHLOROETHENE	0.293
CHLOROBENZENE	0.054
p- AND m-XYLENE	0.033
o-XYLENE	0.056
3-CHLOROTOLUENE	0.099
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.052
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.403

SAMPLE DC-A249-214-17:33-2 2000Ft NEAR EGBERT

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	1.191
PENTANE	0.407
2-METHYL-1,3-BUTADIENE	0.538
DICHLOROMETHANE	0.298
2,2-DIMETHYLBUTANE	0.128
4-METHYL-1-PENTENE	0.346
CYCLOPENTANE	0.033
2,3-DIMETHYLBUTANE	0.043
2-METHYLPENTANE	0.206
3-METHYLPENTANE	0.178
HEXANE	0.165
METHYLCYLOPENTANE	0.057
2,4-DIMETHYLPENTANE	0.223
BENZENE	0.436
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.088
3-METHYLHEXANE	0.104
2,2,4-TRIMETHYLPENTANE	[illegible].144
HEPTANE	0.054
TOLUENE	0.141
c-1,3-DIMETHYLCYCLOHEXANE	0.068
ETHYLBENZENE	0.033
p- AND m-XYLENE	0.044
o-XYLENE	0.060
2-CHLOROTOLUENE	0.076
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.126
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.048

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SAMPLE TO-A097-217-11:00-1

                    COMPOUND NAME   AMOUNT
                                    ug/m^3

                          PROPYNE
                          PENTANE    0.301
           2-METHYL-1,3-BUTADIENE    0.249
                2-METHYL-2-BUTENE    0.065
               2,2-DIMETHYLBUTANE    0.092
               4-METHYL-1-PENTENE    0.162
                     CYCLOPENTANE    0.022
               2,3-DIMETHYLBUTANE    0.030
                  2-METHYLPENTANE    0.134
                  3-METHYLPENTANE    0.108
                           HEXANE    0.099
               METHYLCYCLOPENTANE    0.031
              2,4-DIMETHYLPENTANE    0.159
                          BENZENE    0.239
2,3-DIMETHYLPENTANE/2-METHYLHEXANE   0.048
                    3-METHYLHEXANE   0.037
           2,2,4-TRIMETHYLPENTANE    0.091
                          HEPTANE    0.033
               2,2-DIMETHYLHEXANE    0.015
        2,4,4-TRIMETHYL-2-PENTENE    0.032
           2,3,4-TRIMETHYLPENTANE    0.018
                          TOLUENE    0.192
                TETRACHLOROETHENE    0.056
```

SAMPLE DC-A024-217-08:39-2 2500Ft EVOLUTION #2

COMPOUND NAME	AMOUNT ug/m^3
PROPYNE	
1,3-BUTADIENE	
PENTANE	0.547
2-METHYL-2-BUTENE	0.101
2,2-DIMETHYLBUTANE	0.195
4-METHYL-1-PENTENE	0.127
CYCLOPENTANE	0.036
2,3-DIMETHYLBUTANE	0.068
2-METHYLPENTANE	0.283
3-METHYLPENTANE	0.212
HEXANE	0.194
METHYLCYCLOPENTANE	0.088
1,2-DICHLOROETHANE	0.090
2,4-DIMETHYLPENTANE	0.238
BENZENE	0.438
CYCLOHEXANE	0.043
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.105
3-METHYLHEXANE	0.066
2,2,4-TRIMETHYLPENTANE	0.162
HEPTANE	0.056
2,2-DIMETHYLHEXANE	0.046
2,4,4-TRIMETHYL-2-PENTENE	0.146
2,5-DIMETHYLHEXANE	0.024
2,3,4-TRIMETHYLPENTANE	0.037
TOLUENE	0.196
3-METHYLHEPTANE	0.016
TETRACHLOROETHENE	0.071
p- AND m-XYLENE	0.021
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.019
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.060

SAMPLE DC-A093-217-18:07-4 EVOLUTION 2500Ft NEAR EGBERT

COMPOUND NAME	AMOUNT ug/m^3
PROPYNE	
1,3-BUTADIENE	
1-BUTYNE	0.065
PENTANE	0.317
2-METHYL-1,3-BUTADIENE	3.344
TRANS-2-PENTENE	0.029
DICHLOROMETHANE	0.309
2,2-DIMETHYLBUTANE	0.122
CYCLOPENTANE	0.018
2,3-DIMETHYLBUTANE	0.033
2-METHYLPENTANE	0.158
3-METHYLPENTANE	0.096
HEXANE	0.120
TRICHLOROMETHANE	0.227
METHYLCYCLOPENTANE	0.039
2,4-DIMETHYLPENTANE	0.085
BENZENE	0.325
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.038
3-METHYLHEXANE	0.039
2,2,4-TRIMETHYLPENTANE	0.081
HEPTANE	0.035
2,2-DIMETHYLHEXANE	0.013
2,4,4-TRIMETHYL-2-PENTENE	0.018
TOLUENE	0.175
ETHYLBENZENE	0.013
p- AND m-XYLENE	0.034
o-XYLENE	0.013
NONANE	0.023
3-CHLOROTOLUENE	0.024
3-ETHYLTOLUENE	0.012
1,3,5-TRIMETHYLBENZENE	0.017
b-PINENE	0.021
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.045
DECANE	0.063
LIMONENE	0.030

SAMPLE DC-A030-217-11:08-4 EVOLUTION #4

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.290
2-METHYL-1,3-BUTADIENE	0.077
2,2-DIMETHYLBUTANE	0.065
2-METHYLPENTANE	0.045
3-METHYLPENTANE	0.019

SAMPLE DC-A076-240-18:00-1 10000FT @ EGBERT (COMPARISON)

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	0.204
2-BUTYNE	0.072
2-METHYL-1-BUTENE	0.079
PENTANE	0.054
DICHLOROMETHANE	0.495
2,2-DIMETHYLBUTANE	0.088
4-METHYL-1-PENTENE	0.192
2-METHYLPENTANE	0.018
3-METHYLPENTANE	0.167
1-HEXENE	0.088
HEXANE	0.054
TRICHLOROMETHANE	0.179
2-METHYL-2-PENTENE	0.032
CIS-2-HEXENE	0.034
2,4-DIMETHYLPENTANE	0.187
1,1,1-TRICHLOROETHANE	0.129
BENZENE	0.206
TETRACHLOROMETHANE	0.509
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.027
3-METHYLHEXANE	0.059
2,2,4-TRIMETHYLPENTANE	0.177
HEPTANE	0.072
2,2-DIMETHYLHEXANE	0.035
2,4,4-TRIMETHYL-2-PENTENE	0.052
2,5-DIMETHYLHEXANE	0.028
2,3,4-TRIMETHYLPENTANE	0.032
TOLUENE	0.131
1-METHYLCYCLOHEXENE	0.023
2-METHYLHEPTANE	0.016
c-1,3-DIMETHYLCYCLOHEXANE	0.023
2,2,5-TRIMETHYLHEXANE	0.021
1-OCTENE	0.041
OCTANE	0.034
CHLOROBENZENE	0.649
p- AND m-XYLENE	0.017

SAMPLE DC-A004-240-10:46-2

COMPOUND NAME	AMOUNT ug/m^3
2-BUTYNE	0.028
PENTANE	0.282
2-METHYL-2-BUTENE	0.048
2,2-DIMETHYLBUTANE	0.102
4-METHYL-1-PENTENE	0.097
CYCLOPENTANE	0.026
2,3-DIMETHYLBUTANE	0.029
2-METHYLPENTANE	0.140
3-METHYLPENTANE	0.146
HEXANE	0.127
CIS-2-HEXENE	0.046
METHYLCYCLOPENTANE	0.039
2,4-DIMETHYLPENTANE	0.152
BENZENE	0.309
CYCLOHEXANE	0.052
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.065
3-METHYLHEXANE	0.059
2,2,4-TRIMETHYLPENTANE	0.147
HEPTANE	0.052
2,2-DIMETHYLHEXANE	0.027
2,4,4-TRIMETHYL-2-PENTENE	0.059
2,5-DIMETHYLHEXANE	0.023
2,3,4-TRIMETHYLPENTANE	0.041
TOLUENE	0.291
1-METHYLCYCLOHEXENE	0.036
2-METHYLHEPTANE	0.020
3-METHYLHEPTANE	0.020
2,2,5-TRIMETHYLHEXANE	0.018
TETRACHLOROETHENE	0.089
OCTANE	0.021
CHLOROBENZENE	0.555
ETHYLBENZENE	0.044
p- AND m-XYLENE	0.040

SAMPLE DC-A040-240-11:18-3 2000Ft NEAR DORSET

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.095
2-METHYL-2-BUTENE	0.031
2,2-DIMETHYLBUTANE	0.070
4-METHYL-1-PENTENE	0.142
2-METHYLPENTANE	0.045
3-METHYLPENTANE	0.098
HEXANE	0.041
CIS-2-HEXENE	0.038
2,4-DIMETHYLPENTANE	0.131
1,1,1-TRICHLOROETHANE	0.128
BENZENE	0.183
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.020
2,2,4-TRIMETHYLPENTANE	0.030
HEPTANE	0.016
METHYLCYCLOHEXANE	0.014
2,4,4-TRIMETHYL-2-PENTENE	0.124
2,5-DIMETHYLHEXANE	0.027
TOLUENE	0.082
TETRACHLOROETHENE	0.088
CHLOROBENZENE	0.279

SAMPLE DC-A018-240-18:53-3 2000Ft NEAR DORSET (COMPARISON)

NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	1.059
1-PENTENE	0.029
2-BUTYNE	0.039
PENTANE	0.279
2-METHYL-1,3-BUTADIENE	0.362
TRANS-2-PENTENE	0.079
2-METHYL-2-BUTENE	0.066
2,2-DIMETHYLBUTANE	0.140
4-METHYL-1-PENTENE	0.367
CYCLOPENTANE	0.032
2,3-DIMETHYLBUTANE	0.037
2-METHYLPENTANE	0.663
3-METHYLPENTANE	0.310
1-HEXENE	0.036
HEXANE	0.125
TRICHLOROMETHANE	0.175
CIS-2-HEXENE	0.149
METHYLCYCLOPENTANE	0.038
2,4-DIMETHYLPENTANE	0.226
1,1,1-TRICHLOROETHANE	0.101
BENZENE	0.478
TETRACHLOROMETHANE	0.677
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.237
1,2-DICHLOROPROPANE	0.054
3-METHYLHEXANE	0.057
2,2,4-TRIMETHYLPENTANE	0.123
HEPTANE	0.049
METHYLCYCLOHEXANE	0.094
2,2-DIMETHYLHEXANE	0.051
2,4,4-TRIMETHYL-2-PENTENE	0.186
2,5-DIMETHYLHEXANE	0.039
2,3,4-TRIMETHYLPENTANE	0.020
TOLUENE	0.861
1-METHYLCYCLOHEXENE	0.055
2-METHYLHEPTANE	0.037
4-METHYLHEPTANE	0.031
3-METHYLHEPTANE	0.027
c-1,3-DIMETHYLCYCLOHEXANE	0.023
2,2,5-TRIMETHYLHEXANE	0.016
1,1-DIMETHYLCYCLOHEXANE	0.014
1-OCTENE	0.049
TETRACHLOROETHENE	0.234
OCTANE	0.027
TRANS-2-OCTENE	0.031
CHLOROBENZENE	0.419
ETHYLBENZENE	0.055
p- AND m-XYLENE	0.075
STYRENE	0.028
o-XYLENE	0.032
NONANE	0.024
ISOPROPYLBENZENE	0.018
a-PINENE	0.033

APPENDIX 4

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  DUB0:[MIDDLETON]TO205X15.PRN;1                                      2-OCT-1989
09:24                                    Page 1

              SAMPLE TO-A054-205-15:52-1(5)

                                         COMPOUND NAME   AMOUNT
                                                         ug/m^3

                                   2,2-DIMETHYLPROPANE
                                               PENTANE    0.456
                                2-METHYL-1,3-BUTADIENE    0.546
                                       DICHLOROMETHANE    0.334
                                    2,2-DIMETHYLBUTANE    0.150
                                    4-METHYL-1-PENTENE    0.127
                                       2-METHYLPENTANE    0.186
                                       3-METHYLPENTANE    0.169
                                                HEXANE    0.290
                                    METHYLCYCLOPENTANE    0.078
                                   2,4-DIMETHYLPENTANE    0.237
                                               BENZENE    3.364
                    2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.099
                                               TOLUENE    1.345
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          SAMPLE TO-A099-206-04:07-1

                                     COMPOUND NAME   AMOUNT
                                                     ug/m^3

                                2,2-DIMETHYLPROPANE
                                           PENTANE    0.264
                                 2,2-DIMETHYLBUTANE    0.118
                                    2-METHYLPENTANE    0.082
                                    3-METHYLPENTANE    0.058
                                            HEXANE    0.027
                                           BENZENE    0.029
```

SAMPLE TO-A051-206-04:47-2!

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	0.389
PENTANE	0.091
DICHLOROMETHANE	0.160
2,2-DIMETHYLBUTANE	0.082
4-METHYL-1-PENTENE	0.049
HEXANE	0.038
2,4-DIMETHYLPENTANE	0.104
BENZENE	0.234
TOLUENE	0.069

SAMPLE TO-A049-207-14:38-2

COMPOUND NAME	AMOUNT ug/m^3
TRANS-2-BUTENE	
2-METHYLBUTANE	0.123
PENTANE	0.052
2-METHYL-1,3-BUTADIENE	0.159
DICHLOROMETHANE	0.159
2,2-DIMETHYLBUTANE	0.079
4-METHYL-1-PENTENE	0.093
TRANS-4-METHYL-1-PENTENE	0.027
3-METHYLPENTANE	0.141
HEXANE	0.028
2,4-DIMETHYLPENTANE	0.180
BENZENE	0.168
3-METHYLHEXANE	0.028
2,4,4-TRIMETHYL-2-PENTENE	0.032
TOLUENE	0.051
c-1,3-DIMETHYLCYCLOHEXANE	0.049
p- AND m-XYLENE	0.057
o-XYLENE	0.111
4-ETHYLTOLUENE	0.034
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.194
1,2-DICHLOROBENZENE/p-ISOPROPYLTOLUENE	0.306
1,3-DIETHYLBENZENE	0.038

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SAMPLE TO-A052-208-04:42-2

                                     COMPOUND NAME   AMOUNT
                                                     ug/m^3

                                   2-METHYLBUTANE     0.053
                                          PENTANE     0.185
                                2-METHYL-2-BUTENE     0.051
                               2,2-DIMETHYLBUTANE     0.138
                               4-METHYL-1-PENTENE     0.044
                                  2-METHYLPENTANE     0.081
                                  3-METHYLPENTANE     0.144
                                           HEXANE     0.064
                              2,4-DIMETHYLPENTANE     0.117
                                          BENZENE     0.131
                                   3-METHYLHEXANE     0.117
                                          TOLUENE     0.045
                        c-1,3-DIMETHYLCYCLOHEXANE     0.128
                                    CHLOROBENZENE     0.036
                                 p- AND m-XYLENE      0.034
                                         o-XYLENE     0.126
    1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE          0.132
```

SAMPLE TO-A069-210-14:01-1

COMPOUND NAME	AMOUNT
1,3-BUTADIENE	
PENTANE	0.248
2-METHYL-1,3-BUTADIENE	0.336
2-METHYL-2-BUTENE	0.055
2,2-DIMETHYLBUTANE	0.069
2-METHYLPENTANE	0.076
3-METHYLPENTANE	0.114
HEXANE	0.075
METHYLCYCLOPENTANE	0.024
2,4-DIMETHYLPENTANE	0.097
BENZENE	0.333
CYCLOHEXANE	0.060
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.031
3-METHYLHEXANE	0.043
2,2,4-TRIMETHYLPENTANE	0.042
HEPTANE	0.017
TOLUENE	0.185
c-1,3-DIMETHYLCYCLOHEXANE	0.055
CHLOROBENZENE	0.063
ETHYLBENZENE	0.037
p- AND m-XYLENE	0.093
o-XYLENE	0.088
NONANE	0.018
a-PINENE	0.107
1,2,4-TRIMETHYLBENZENE/tert,BUTYLBENZENE	0.062

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   DUB0:[MIDDLETON]TO211X1.PRN;1                                     2-OCT-1989
09:24                                    Page 1

              SAMPLE TO-A018-211-01:55-1

                                         COMPOUND NAME   AMOUNT
                                                         ug/m^3

                                               PROPYNE
                                         1,3-BUTADIENE
                                              1-BUTYNE    0.079
                                               PENTANE    0.281
                                     2-METHYL-2-BUTENE    0.072
                                    2,2-DIMETHYLBUTANE    0.227
                                          CYCLOPENTANE    0.019
                                    2,3-DIMETHYLBUTANE    0.028
                                       2-METHYLPENTANE    0.131
                                       3-METHYLPENTANE    0.110
                                                HEXANE    0.096
                                    METHYLCYCLOPENTANE    0.033
                                   2,4-DIMETHYLPENTANE    0.192
                                               BENZENE    0.174
                    2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.026
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DUB0:[MIDDLETON]TO211X2.PRN;1 2-OCT-1989
09:24 Page 1

SAMPLE TO-A019-211-02:19-2

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.212
2-METHYL-2-BUTENE	0.051
2,2-DIMETHYLBUTANE	0.094
2,3-DIMETHYLBUTANE	0.022
2-METHYLPENTANE	0.100
3-METHYLPENTANE	0.075
HEXANE	0.097
METHYLCYCLOPENTANE	0.023
2,4-DIMETHYLPENTANE	0.183
BENZENE	0.213
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.053
3-METHYLHEXANE	0.027
2,2,4-TRIMETHYLPENTANE	0.062
HEPTANE	0.018
TOLUENE	0.019

SAMPLE TO-A074-211-15:40-2

COMPOUND NAME	AMOUNT ug/m^3
TRANS-2-BUTENE	
PENTANE	0.076
2-METHYL-2-BUTENE	0.079
2,2-DIMETHYLBUTANE	0.114
4-METHYL-1-PENTENE	0.054
2-METHYLPENTANE	0.025
TRANS-4-METHYL-1-PENTENE	0.048
3-METHYLPENTANE	0.120
HEXANE	0.029
2,4-DIMETHYLPENTANE	0.153
BENZENE	0.137
2,4,4-TRIMETHYL-1-PENTENE	0.113
TOLUENE	0.045
c-1,3-DIMETHYLCYCLOHEXANE	0.024
CHLOROBENZENE	0.073
p- AND m-XYLENE	0.024

SAMPLE TO-A001-211-16:06-3

COMPOUND NAME	AMOUNT ug/m^3
TRANS-2-BUTENE	
2-METHYLBUTANE	0.230
2,2-DIMETHYLBUTANE	0.069
4-METHYL-1-PENTENE	0.069
2-METHYLPENTANE	0.188
3-METHYLPENTANE	0.388
2,4-DIMETHYLPENTANE	0.154
BENZENE	0.091
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.060
3-METHYLHEXANE	0.737
2,2,4-TRIMETHYLPENTANE	0.025
3-HEPTENE	0.035
HEPTANE	0.031
2,4,4-TRIMETHYL-2-PENTENE	0.054
TOLUENE	0.099
c-1,3-DIMETHYLCYCLOHEXANE	0.071
1,1,-DIMETHYLCYCLOHEXANE	0.025
OCTANE	0.048
CHLOROBENZENE	0.031
ETHYLBENZENE	0.021
p- AND m-XYLENE	0.047
STYRENE	0.066
1,3,5-TRIMETHYLBENZENE	0.030

SAMPLE TO-A054-212-14:39-3

COMPOUND NAME	AMOUNT ug/m^3
PROPYNE	
1,3-BUTADIENE	
2,2-DIMETHYLPROPANE	
PENTANE	0.115
DICHLOROMETHANE	0.115
2,2-DIMETHYLBUTANE	0.102
4-METHYL-1-PENTENE	0.042
2-METHYLPENTANE	0.039
3-METHYLPENTANE	0.148
HEXANE	0.029
2,4-DIMETHYLPENTANE	0.055
BENZENE	0.082
3-METHYLHEXANE	0.051
TOLUENE	0.038

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  DUB0:[MIDDLETON]TO214X1.PRN;1                                   2-OCT-1989
09:25                              Page 1

             SAMPLE TO-A004-214-00:49-1

                                        COMPOUND NAME   AMOUNT

                                              PROPYNE
                                        1,3-BUTADIENE
                                   2,2-DIMETHYLPROPANE
                                              PENTANE     0.164
                                      DICHLOROMETHANE     0.111
                                   2,2-DIMETHYLBUTANE     0.088
                                   4-METHYL-1-PENTENE     0.122
                                      2-METHYLPENTANE     0.094
                                      3-METHYLPENTANE     0.096
                                               HEXANE     0.081
                                   METHYLCYCLOPENTANE     0.027
                                 2,4-DIMETHYLPENTANE      0.163
                                              BENZENE     0.155
                  2,3-DIMETHYLPENTANE/2-METHYLHEXANE      0.046
                                       3-METHYLHEXANE     0.035
                               2,2,4-TRIMETHYLPENTANE     0.040
                                              HEPTANE     0.023
                                              TOLUENE     0.059
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SAMPLE TO-A036-217-19:02-1

                     COMPOUND NAME   AMOUNT
                                     ug/m^3

                           PROPYNE
                           PENTANE    0.193
                 2-METHYL-2-BUTENE    0.069
                2,2-DIMETHYLBUTANE    0.091
                2,3-DIMETHYLBUTANE    0.017
                  2-METHYLPENTANE     0.082
                  3-METHYLPENTANE     0.056
                            HEXANE    0.069
                METHYLCYCLOPENTANE    0.018
               2,4-DIMETHYLPENTANE    0.112
                           BENZENE    0.124
2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.017
           2,2,4-TRIMETHYLPENTANE     0.020
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SAMPLE TO-A021-217-18:52-1

                          COMPOUND NAME   AMOUNT
                                          ug/m^3

                                PENTANE    0.100
               2-METHYL-1,3-BUTADIENE    1.776
                     2-METHYL-2-BUTENE    0.021
                   2,2-DIMETHYLBUTANE    0.049
                    4-METHYL-1-PENTENE    0.127
                       2-METHYLPENTANE    0.053
                       3-METHYLPENTANE    0.044
                                 HEXANE    0.044
                       TRICHLOROMETHANE    0.084
                     METHYLCYCLOPENTANE    0.014
                   2,4-DIMETHYLPENTANE    0.070
                                BENZENE    0.125
   2,3-DIMETHYLPENTANE/2-METHYLHEXANE    0.028
                         3-METHYLHEXANE    0.018
                2,2,4-TRIMETHYLPENTANE    0.036
                                HEPTANE    0.019
            2,4,4-TRIMETHYL-2-PENTENE    0.047
                                TOLUENE    0.171
```

SAMPLE TO-A036-217-19:02-1

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.561
PENTANE	0.141
2-METHYL-1,3-BUTADIENE	0.180
TRANS-2-PENTENE	0.028
DICHLOROMETHANE	0.127
2,2-DIMETHYLBUTANE	0.088
4-METHYL-1-PENTENE	0.166
2,3-DIMETHYLBUTANE	0.018
2-METHYLPENTANE	0.095
3-METHYLPENTANE	0.141
HEXANE	0.088
METHYLCYCLOPENTANE	0.029
2,4-DIMETHYLPENTANE	0.151
BENZENE	0.282
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.049
3-METHYLHEXANE	0.036
2,2,4-TRIMETHYLPENTANE	0.071
HEPTANE	0.031
2,2-DIMETHYLHEXANE	0.016
2,4,4-TRIMETHYL-2-PENTENE	0.033
2,3,4-TRIMETHYLPENTANE	0.012
TOLUENE	0.292
2-METHYLHEPTANE	0.009
3-METHYLHEPTANE	0.016
1-OCTENE	0.014
TETRACHLOROETHENE	0.096
OCTANE	0.024
ETHYLBENZENE	0.048
p- AND m-XYLENE	0.067
o-XYLENE	0.029

SAMPLE TO-A045-217-23:01-1

COMPOUND NAME	AMOUNT ug/m^3
2-METHYL-1-BUTENE	0.059
PENTANE	0.153
2-METHYL-2-BUTENE	0.101
2,2-DIMETHYLBUTANE	0.136
2-METHYLPENTANE	0.047
3-METHYLPENTANE	0.037
HEXANE	0.017
2,4-DIMETHYLPENTANE	0.053
BENZENE	0.038

SAMPLE TO-A065-218-02:33-1

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	1.126
1-PENTENE	0.035
PENTANE	0.520
TRANS-2-PENTENE	0.029
DICHLOROMETHANE	0.393
2,2-DIMETHYLBUTANE	0.154
CYCLOPENTANE	0.022
2,3-DIMETHYLBUTANE	0.047
2-METHYLPENTANE	0.225
3-METHYLPENTANE	0.125
1-HEXENE	0.022
HEXANE	0.191
METHYLCYCLOPENTANE	0.055
BENZENE	0.348
CYCLOHEXANE	0.028
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.086
3-METHYLHEXANE	0.052
2,2,4-TRIMETHYLPENTANE	0.111
HEPTANE	0.065
2,2-DIMETHYLHEXANE	0.020
2,4,4-TRIMETHYL-2-PENTENE	0.111
2,3,4-TRIMETHYLPENTANE	0.017
TOLUENE	0.275
2-METHYLHEPTANE	0.019
3-METHYLHEPTANE	0.023
OCTANE	0.062
ETHYLBENZENE	0.034
p- AND m-XYLENE	0.057
o-XYLENE	0.033
NONANE	0.052

SAMPLE TO-A026-218-06:33-1

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.218
2-METHYL-2-BUTENE	0.069
2,2-DIMETHYLBUTANE	0.152
2,3-DIMETHYLBUTANE	0.024
2-METHYLPENTANE	0.103
3-METHYLPENTANE	0.071
HEXANE	0.057
METHYLCYCLOPENTANE	0.021
2,4-DIMETHYLPENTANE	0.047
BENZENE	0.029

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SAMPLE TO-A068-219-17:42-1

                         COMPOUND NAME   AMOUNT
                                         ug/m^3

                         1,3-BUTADIENE
                               PENTANE    0.016
                    2,2-DIMETHYLBUTANE    0.046
                   2,4-DIMETHYLPENTANE    0.065
                               BENZENE    0.036
          2,4,4-TRIMETHYL-2-PENTENE       0.025
```

SAMPLE T0-A009-229-20:51-3 2000Ft NEAR DORSET (REPEAT 37)

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.107
2-METHYL-1,3-BUTADIENE	1.543
2,2-DIMETHYLBUTANE	0.094
4-METHYL-1-PENTENE	0.049
2-METHYLPENTANE	0.060
3-METHYLPENTANE	0.099
HEXANE	0.047
2,4-DIMETHYLPENTANE	0.127
1,1,1-TRICHLOROETHANE	0.464
BENZENE	0.167
2,4,4-TRIMETHYL-2-PENTENE	0.051
TOLUENE	0.104
CHLOROBENZENE	0.667

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  DUB0:[MIDDLETON]TO230X1.PRN;1                                        2-OCT-1989
09:26                                    Page 1

         SAMPLE TO-A079-230-00:22-1

                                     COMPOUND NAME   AMOUNT
                                                     ug/m^3

                                           PENTANE    0.101
                                2,2-DIMETHYLBUTANE    0.081
                                4-METHYL-1-PENTENE    0.180
                                   2-METHYLPENTANE    0.029
                                   3-METHYLPENTANE    0.091
                                            HEXANE    0.031
                              2,4-DIMETHYLPENTANE     0.142
                            1,1,1-TRICHLOROETHANE     0.224
                                           BENZENE    0.149
              2,3-DIMETHYLPENTANE/2-METHYLHEXANE      0.021
                                     3-METHYLHEXANE   0.109
                           2,2,4-TRIMETHYLPENTANE     0.033
                        2,4,4-TRIMETHYL-2-PENTENE     0.023
                                           TOLUENE    0.049
                       c-1,3-DIMETHYLCYCLOHEXANE      0.052
                                      CHLOROBENZENE   0.665
                                            DECANE    0.097
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SAMPLE TO-A088-232-02:19-1 3100Ft OVER EGBERT

COMPOUND NAME	AMOUNT ug/m^3
PENTANE	0.028
2-METHYL-1,3-BUTADIENE	1.462
2-METHYL-2-BUTENE	0.023
2,2-DIMETHYLBUTANE	0.070
4-METHYL-1-PENTENE	0.199
2-METHYLPENTANE	0.136
3-METHYLPENTANE	0.093
2,4-DIMETHYLPENTANE	0.147
BENZENE	0.144
TETRACHLOROMETHANE	0.319
3-METHYLHEXANE	0.093
3-HEPTENE	0.026
2,4,4-TRIMETHYL-2-PENTENE	0.030
TOLUENE	0.074
1,1-DIMETHYCYCLOHEXANE	0.016
CHLOROBENZENE	0.455

SAMPLE TO-A062-235-14:03-1

COMPOUND NAME	AMOUNT ug/m^3
2-METHYL-2-BUTENE	0.028
2,2-DIMETHYLBUTANE	0.070
4-METHYL-1-PENTENE	0.089
2,4-DIMETHYLPENTANE	0.159
1,1,1-TRICHLOROETHANE	0.110
BENZENE	0.118
2,4,4-TRIMETHYL-2-PENTENE	0.035
TOLUENE	0.031
1,1-DIMETHYLCYCLOHEXANE	0.014
TETRACHLOROETHENE	0.088
OCTANE	0.018
CHLOROBENZENE	0.452
p- AND m-XYLENE	0.041
o-XYLENE	0.019
NONANE	0.016

SAMPLE TO-A095-235-14:56-3 2500Ft NEAR ?

COMPOUND NAME	AMOUNT ug/m^3
1-BUTYNE	0.031
PENTANE	0.096
2-METHYL-1,3-BUTADIENE	0.191
2-METHYL-2-BUTENE	0.043
2,2-DIMETHYLBUTANE	0.062
CYCLOPENTENE	0.038
4-METHYL-1-PENTENE	0.291
2,3-DIMETHYLBUTANE	0.038
2-METHYLPENTANE	0.065
TRANS-4-METHYL-1-PENTENE	0.039
3-METHYLPENTANE	0.134
HEXANE	0.042
CIS-2-HEXENE	0.071
METHYLCYCLOPENTANE	0.017
2,4-DIMETHYLPENTANE	0.156
1,1,1-TRICHLOROETHANE	0.235
BENZENE	0.127
TETRACHLOROMETHANE	0.154
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.086
2,2,4-TRIMETHYLPENTANE	0.013
HEPTANE	0.057
METHYLCYCLOHEXANE	0.026
2,4,4-TRIMETHYL-2-PENTENE	0.067
TOLUENE	0.166
1-METHYLCYCLOHEXENE	0.020
2-METHYLHEPTANE	0.027
2,2,5-TRIMETHYLHEXANE	0.008
1,1-DIMETHYLCYCLOHEXANE	0.256
1-OCTENE	0.033
TETRACHLOROETHENE	0.083
OCTANE	0.022
c-1,2-DIMETHYLCYCLOHEXANE	0.042
CHLOROBENZENE	1.343
ETHYLBENZENE	0.023
3-CHLOROTOLUENE	0.012

REPEAT RUN 61 NEW AIR &NITROGEN

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.730
2-BUTYNE	0.072
PENTANE	0.112
2-METHYL-1,3-BUTADIENE	0.227
2-METHYL-2-BUTENE	0.049
2,2-DIMETHYLBUTANE	0.081
4-METHYL-1-PENTENE	0.321
2-METHYLPENTANE	0.058
3-METHYLPENTANE	0.180
HEXANE	0.056
TRICHLOROMETHANE	0.139
CIS-2-HEXENE	0.079
METHYLCYCLOPENTANE	0.019
2,4-DIMETHYLPENTANE	0.168
1,1,1-TRICHLOROETHANE	0.263
BENZENE	0.175
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.026
1,2-DICHLOROPROPANE	0.044
3-METHYLHEXANE	0.068
2,2,4-TRIMETHYLPENTANE	0.023
2,2-DIMETHYLHEXANE	0.036
2,4,4-TRIMETHYL-2-PENTENE	0.077
TOLUENE	0.176
1-METHYLCYCLOHEXENE	0.022
1-OCTENE	0.029
TETRACHLOROETHENE	0.116
OCTANE	0.024
CHLOROBENZENE	0.414
ETHYLBENZENE	0.061
p- AND m-XYLENE	0.065
o-XYLENE	0.021
NONANE	0.018
a-PINENE	0.028

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   DUB0:[MIDDLETON]TO236.PRN;1                                      2-OCT-1989
09:26                                    Page 1

                SAMPLE TO-A064-236-14:06

                                           COMPOUND NAME   AMOUNT
                                                           ug/m^3

                                      2,2-DIMETHYLBUTANE    0.047
                                      4-METHYL-1-PENTENE    0.152
                                           CIS-2-HEXENE     0.030
                                     2,4-DIMETHYLPENTANE    0.047
                                   1,1,1-TRICHLOROETHANE    0.247
                                                BENZENE     0.074
                                      TETRACHLOROMETHANE    0.254
                                          3-METHYLHEXANE    0.097
                                               3-HEPTENE    0.030
                                                TOLUENE     0.044
                                               1-OCTENE     0.028
                                           CHLOROBENZENE    0.340
                                            ETHYLBENZENE    0.021
                                         p- AND m-XYLENE    0.050
                                                STYRENE     0.069
                                                 NONANE     0.023
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SAMPLE TO-A065-236-13:28-1

COMPOUND NAME	AMOUNT ug/m^3
2-METHYLBUTANE	0.048
PENTANE	0.072
2-METHYL-1,3-BUTADIENE	1.193
DICHLOROMETHANE	0.117
2,2-DIMETHYLBUTANE	0.071
4-METHYL-1-PENTENE	0.060
2-METHYLPENTANE	0.025
HEXANE	0.028
CIS-2-HEXENE	0.031
2,4-DIMETHYLPENTANE	0.141
1,1,1-TRICHLOROETHANE	0.217
BENZENE	0.268
2-METHYLHEXANE	0.038
3-METHYLHEXANE	0.058
3-HEPTENE	0.029
2,4,4-TRIMETHYL-2-PENTENE	0.045
TOLUENE	0.095
c-1,3-DIMETHYLCYCLOHEXANE	0.034
TETRACHLOROETHENE	0.075
TRANS-2-OCTENE	0.141
CHLOROBENZENE	0.733
ETHYLBENZENE	0.023
p- AND m-XYLENE	0.052
STYRENE	0.216
o-XYLENE	0.036
NONANE	0.024

SAMPLE TO-A001-241-11:47-3 11-12,000Ft OVER EGBERT

COMPOUND NAME	AMOUNT ug/m^3
2,2-DIMETHYLPROPANE	
2-METHYLBUTANE	0.757
1-PENTENE	0.018
2-BUTYNE	0.123
PENTANE	0.180
2,2-DIMETHYLBUTANE	0.093
4-METHYL-1-PENTENE	0.323
2-METHYLPENTANE	0.353
HEXANE	0.058
CIS-2-HEXENE	0.062
2,4-DIMETHYLPENTANE	0.126
1,1,1-TRICHLOROETHANE	0.873
BENZENE	0.530
TETRACHLOROMETHANE	0.530
2,3-DIMETHYLPENTANE/2-METHYLHEXANE	0.371
3-METHYLHEXANE	0.737
3-HEPTENE	0.088
HEPTANE	0.049
2,4,4-TRIMETHYL-2-PENTENE	0.096
TOLUENE	0.543
2-METHYLHEPTANE	0.033
4-METHYLHEPTANE	0.083
c-1,3-DIMETHYLCYCLOHEXANE	0.419
1,1-DIMETHYLCYCLOHEXANE	0.055
TETRACHLOROETHENE	0.163
OCTANE	0.232
CHLOROBENZENE	0.175
ETHYLBENZENE	0.085
p- AND m-XYLENE	0.162
STYRENE	0.121
o-XYLENE	0.157